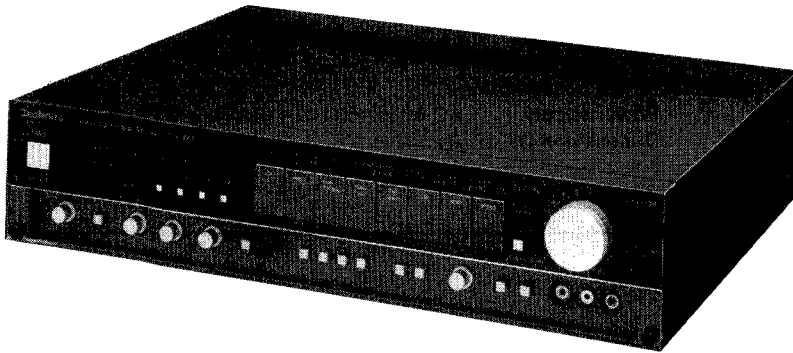


Service Manual

Stereo DC Control Amplifier

SU-A6MK2(K)

[D],[EK],[EW],[EB],[EF],
[EH],[XA],[XL],[Ei],[PA],
[PE],[PC]



- * The color of this model is black type only.
- * The black type model is indicated by (K) in the Service Manual.

Areas

- * [D] is available in Scandinavia.
- * [EK] is available in United Kingdom.
- * [EW] is available in Switzerland.
- * [EB] is available in Belgium.
- * [EF] is available in France.
- * [EH] is available in Holland.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [XL] is available in Australia.
- * [Ei] is available in Italy.
- * [PA] is available in far East PX.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.

Please use this manual together with the service manual for Model No. SU-A6MK2,
Order No. HAD84032748C1.

SPECIFICATIONS

(Specifications are subject to change without notice for further improvement.)

(DIN 45 500)

AUDIO SECTION

Total harmonic distortion (20 Hz~20 kHz)	
PHONO MM	0.002%
	(0.5 V output at vol. -30 dB)
	0.002%
	(3 V output at vol. max.)
PHONO MC	0.015%
	(0.5 V output at vol. -30 dB)
	0.003%
	(3 V output at vol. max.)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	0.002%
	(0.5 V output at vol. -30 dB)
	0.002%
	(3 V output at vol. max.)
Input sensitivity and impedance	
PHONO MM	2.5 mV/47 kΩ
MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2 TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ

PHONO maximum input voltage (1 kHz, RMS)

MM	160 mV
S/N	

PHONO MM	80 dB (90 dB, IHF, '66)
MC	73 dB (75 dB, IHF, '66)

TUNER, CD, VIDEO/AUX 1, TV/AUX 2,
TAPE 1/EXT, TAPE 2/VTR,
TAPE 3/DA TAPE/DA PROCESSOR

100 dB (106 dB, IHF, '66)

Frequency response

PHONO MM

20 Hz~20 kHz, RIAA standard curve, ±0.2 dB
20 Hz~100 kHz, RIAA standard curve, ±0.5 dB

TUNER, CD, VIDEO/AUX 1 TV/AUX 2,
TAPE 1/EXT, TAPE 2/VTR,
TAPE 3/DA TAPE/DA PROCESSOR

20 Hz~20 kHz (+0, -0.1 dB)
0.5 Hz~200 kHz (+0, -3 dB)

Shelving Tone

SUPER BASS (30 Hz)	0 dB~+10 dB
BASS (50 Hz)	-5 dB~+5 dB
TREBLE (20 kHz)	-5 dB~+5 dB
SUPER TREBLE (50 kHz)	-10 dB~+10 dB

Technics

Panasonic Tokyo
Matsushita Electric Industrial Co., Ltd.
1-2, 1-chome, Shiba-koen, Minato-ku, Tokyo 105 Japan

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

SU-A6MK2

Turnover frequency	
SUPER BASS (+12 dB/oct)	75 Hz, 150 Hz
BASS	500 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (-12 dB/oct)	20 Hz
Muting	-20 dB
Output voltage and impedance	
PRE OUT	rated 2 V/2Ω max. 8 V/2Ω
REC OUT	
TAPE 1/EXT, TAPE 2/VTR,	
TAPE 3/DA TAPE/DA PROCESSOR	150 mV/600Ω

■ VIDEO SECTION (VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR)

Output voltage (at 1V input, 75 ohms unbalanced)	1±0.1Vp-p
Maximum input voltage	1.5Vp-p
Input/output impedance	75 ohms unbalanced

■ GENERAL

Power consumption	17 W
Power supply	AC 50 Hz/60 Hz, 110 V/120 V/220 V/240 V
Dimensions (W×H×D)	430 × 98 × 360 mm (16-15/16" × 3-7/8" × 14-3/16")
Weight	5.9 kg (13.0 lb.)

■ TECHNISCHE DATEN

(Die technischen Daten können infolge von Verbesserungen ohne Ankündigung geändert werden.)

(DIN 45 500)

■ TON TEIL

Gesamtklirrfaktor (20 Hz~20 kHz)

PHONO MM	0,002%
(0,5 V Ausgangsspannung bei -30 dB Leistung)	
	0,002%
(3 V Ausgangsspannung bei Höchstleistung)	
PHONO MC	0,015%
(0,5 V Ausgangsspannung bei -30 dB Leistung)	
	0,003%
(3 V Ausgangsspannung bei Höchstleistung)	
TUNER, CD, VIDEO/AUX 1, TV/AUX 2,	
TAPE 1/EXT, TAPE 2/VTR,	
TAPE 3/DA TAPE/DA PROCESSOR	0,002%
(0,5 V Ausgangsspannung bei -30 dB Leistung)	
	0,002%
(3 V Ausgangsspannung bei Höchstleistung)	

Eingangsempfindlichkeit und -impedanz

PHONO MM	2,5 mV/47 kΩ
MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2,	
TAPE 1/EXT, TAPE 2/VTR,	
TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ

Maximale TA-Eingangsspannung (1 kHz, eff.)

MM	160 mV
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Geräuschabstand

PHONO MM	80 dB (90 dB nach IHF, '66)
MC	73 dB (75 dB nach IHF, '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2,	
TAPE 1/EXT, TAPE 2/VTR,	
TAPE 3/DA TAPE/DA PROCESSOR	100 dB (nach IHF, '66: 106 dB)

Frequenzgang

PHONO MM	RIAA-standardkurve, 20 Hz~20 kHz, ±0,2 dB RIAA-standardkurve 20 Hz~100 kHz, ±0,5 dB
TUNER, CD, VIDEO/AUX 1, TV/AUX 2,	
TAPE 1/EXT, TAPE 2/VTR,	
TAPE 3/DA TAPE/DA PROCESSOR	20 Hz~20 kHz (+0, -0,1 dB) 0,5 Hz~200 kHz (+0, -3 dB)

Shelving Tone

SUPER BASS (30 Hz)	0 dB~10 dB
BASS (50 Hz)	-5 dB~+5 dB
TREBLE (20 kHz)	-5 dB~+5 dB
SUPER TREBLE (50 kHz)	-10 dB~+10 dB

Turnover frequency

SUPER BASS (+12 dB/oct)	75 Hz, 150 Hz
BASS	500 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (-12 dB/oct)	20 Hz

Tondämpfung

Ausgangsspannung und -impedanz	
PRE OUT	Nennspg. 2 V/2Ω max. 8 V/2Ω

REC OUT

TAPE 1/EXT, TAPE 2/VTR,	
TAPE 3/DA TAPE/DA PROCESSOR	150 mV/600Ω

■ BILDTEIL

(VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR)

Ausgangssignalpegel (bei 1 V_{ss}, 75Ω, unsymmetrisch)	1±0,1 Vp-p
Maximale Eingangsspannung	1,5 Vp-p
Eingangs/Ausgangs impedanz	75Ω Unsymmetrisch

■ ALLGEMEINE DATEN

Leistungsaufnahme	17 W
Netzspannung	Wechselstrom 50 Hz/60 Hz, 110 V/120 V/220 V/240 V
Abmessungen (B×H×T)	430 × 98 × 360 mm
Gewicht	5,9 kg

CARACTERISTIQUES (Sujet à changement sans preavis.)

(DIN 45 500)

SECTION AUDIO

Distorsion harmonique totale (20 Hz~20 kHz)	
PHONO MM	0,002%
	(sortie de 0,5 V à vol. -30 dB)
	0,002%
	(sortie de 3 V à vol. max.)
PHONO MC	0,015%
	(sortie de 0,5 V à vol. -30 dB)
	0,003%
	(sortie de 3 V à vol. max.)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	0,002%
	(sortie de 0,5 V à vol. -30 dB)
	0,002%
	(sortie de 3 V à vol. max.)
Sensibilité et impédance d'entrée	
PHONO MM	2,5 mV/47 kΩ
PHONO MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ
PHONO (tension d'entrée maximum, 1 kHz RMS)	
MM	160 mV
Signal/Bruit	
PHONO MM	80 dB (90 dB, IHF, '66)
PHONO MC	73 dB (75 dB, IHF, '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	100 dB (IHF, '66: 106 dB)
Réponse de fréquence	
PHONO MM	
	20 Hz~20 kHz,
	Courbe nominale RIAA ±0,2 dB
	20 Hz~100 kHz,
	Courbe nominale RIAA ±0,5 dB
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	
	20 Hz~20 kHz (+0, -0,1 dB)
	0,5 Hz~200 kHz (+0, -3 dB)

Shelving Tone	
SUPER BASS (30 Hz)	0 dB~+10 dB
BASS (50 Hz)	-5 dB~+5 dB
TREBLE (20 kHz)	-5 dB~+5 dB
SUPER TREBLE (50 kHz)	-10 dB~+10 dB
Turnover frequency	
SUPER BASS (+12 dB/oct)	75 Hz, 150 Hz
BASS	500 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (-12 dB/oct)	20 Hz
Réglage silencieux	-20 dB
Tension de sortie et impédance	
PRE OUT	nominale 2 V/2Ω maxi. 8 V/2Ω
REC OUT	
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/600Ω

SECTION VIDEO (VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR)

Tension de sortie (à une entrée de 1 Vp-p, 75Ω, non-équilibré)	1±0,1 Vp-p
Tension d'entrée maximum	1,5 Vp-p
Impédance d'entrée/sortie	75Ω non-équilibré

DIVERS

Consommation	17 W
Alimentation	CA 50 Hz/60 Hz, 110 V/120 V/220 V/240 V
Dimensions (L×H×Pr)	430 × 98 × 360 mm
Poids	5,9 kg

Nota:

La Société NATIONAL-PANASONIC-FRANCE, importateur du matériel MATSUSHITA-ELECTRIC déclare que cet appareil est conforme aux prescriptions de la directive 76/889/C.E.E. (arrêté 14 Janvier 1980).

ESPECIFICACIONES (Estas especificaciones están sujetas a cualquier cambio sin previo aviso.)

(DIN 45 500)

SECCION AUDIO

Distorsión armónica total (20 Hz~20 kHz)	
PHONO MM	0,002%
	(0,5 V de salida a vol. de -30 dB)
	0,002%
	(3 V de salida a vol. máx.)
PHONO MC	0,015%
	(0,5 V de salida a vol. de -30 dB)
	0,003%
	(3 V de salida a vol. máx.)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	0,002%
	(0,5 V de salida a vol. de -30 dB)
	0,002%
	(3 V de salida a vol. máx.)
Sensibilidad e impedancia de entrada	
PHONO MM	2,5 mV/47 kΩ
PHONO MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ
Voltaje máximo de entrada de PHONO (1 kHz, RMS)	
MM	160 mV
Relación de señal a ruido	
PHONO MM	80 dB (90 dB, IHF, '66)
PHONO MC	73 dB (75 dB, IHF, '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	100 dB (IHF, '66: 106 dB)
Shelving Tone	
SUPER BASS (30 Hz)	0 dB~+10 dB
BASS (50 Hz)	-5 dB~+5 dB
TREBLE (20 kHz)	-5 dB~+5 dB
SUPER TREBLE (50 kHz)	-10 dB~+10 dB

SU-A6MK2

Respuesta de frecuencia PHONO MM

20 Hz~20 kHz,
curva RIAA estándar $\pm 0,2$ dB
20 Hz~100 kHz,
curva RIAA estándar $\pm 0,5$ dB

TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR

20 Hz~20 kHz (+0, -0,1 dB)
0,5 Hz~200 kHz (+0, -3 dB)

Turnover frequency

SUPER BASS (+12 dB/oct) 75 Hz, 150 Hz

BASS 500 Hz

TREBLE 2 kHz

SUPER TREBLE 8 kHz

SUBSONIC FILTER (-12 dB/oct) 20 Hz

Silenciamiento -20 dB

Voltaje e impedancia de salida PRE OUT

de régimen 2 V/2 Ω
máx. 8 V/2 Ω

REC OUT

TAPE 1/EXT, TAPE 2/VTR,
TAPE 3/DA TAPE/DA PROCESSOR 150 mV/600 Ω

SECCION VIDEO

(VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR,
TAPE 3 DA TAPE/DA PROCESSOR)

Voltaje e salida (con una entrada de 1 Vp-p,
75 Ω , desequilibrada)

1 $\pm 0,1$ Vp-p

Voltaje máximo de entrada

1,5 Vp-p

Impedancia de entrada/salida

75 Ω desequilibrada

GENERAL

Consumo de energía

17 W

Alimentación de energía

CA 50 Hz/60 Hz,

110 V/120 V/220 V/240 V

Dimensiones (An. \times Al. \times Prof.)

430 \times 98 \times 360 mm

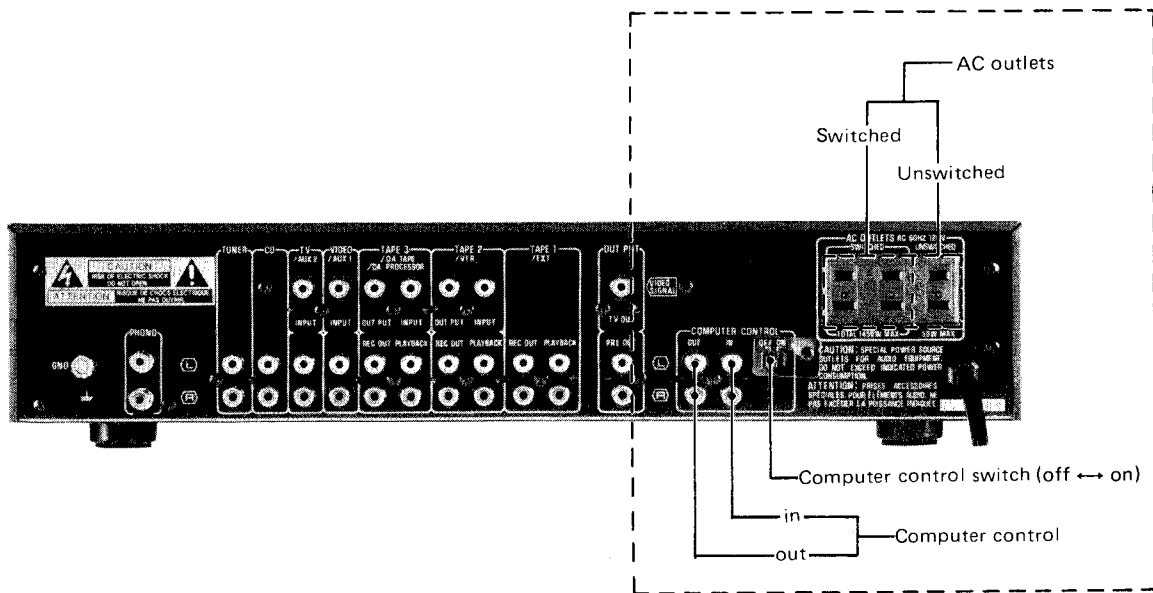
Peso

5,9 kg

LOCATION OF CONTROLS

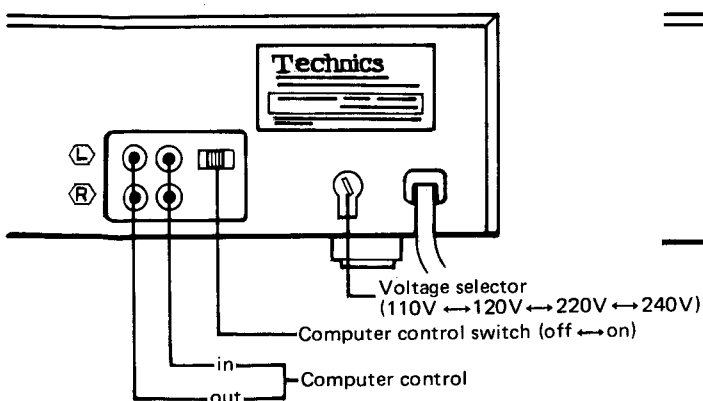
- Change parts of Rear panel

[M] area

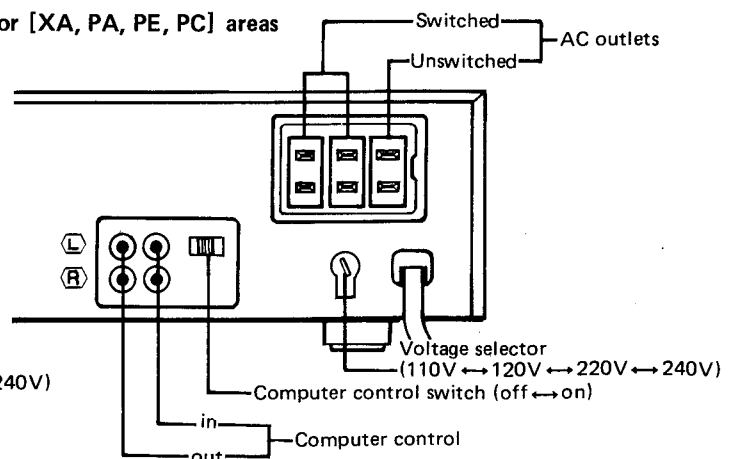


CHANGE

For [Other] areas



For [XA, PA, PE, PC] areas



ABGLEICH-METHODE

• **Einstellungen am Gerät und zu verwendende Instrumente**

- 1. Eingangs-Wahlschalter tuner
- 2. Betriebsart-Wahlschalter DC
- 3. Balanceregelung center
- 4. Lautstärkeregelung 0dB (MAX)
- 5. Gleichstrom-Voltmeter (Hochpräzisions-Typ).

Achtung
Nach dem Einschalten des Gerätes ist mindestens 2 Minuten lang zu warten, bevor die Justierung durchgeführt wird.

Justierung	Gleichstrom-Voltmeter-Anschlüsse	Zu justierender Drehwiderstand	Vorgehen
Gleichstrom-Balance (Treiberstufe)	L.K: Gleichstrom-Voltmeter zwischen TP1 und TP2 (Masse) anschließen.	VR501	VR501 (L.K.) und VR502 (R.K.) so justieren, daß das Gleichstrom-Voltmeter 0 ± 0,1mV anzeigt.
	R.K: Gleichstrom-Voltmeter zwischen TP3 und TP2 (Masse) anschließen.	VR502	
Gleichstrom-Balance (Hochverstärkungsstufe)	L.K: Gleichstrom-Voltmeter an den ausgangsanschluß (Pre out) anschließen.	VR801	VR801 (L.K.) und VR802 (R.K.) so justieren, daß, das Gleichstrom-Voltmeter 0 ± 0,5mV anzeigt.
	P.K: Gleichstrom-Voltmeter an den ausgangsanschluß (Pre out) anschließen.	VR802	

PROCEDURE DE MISE AU POINT

• **Conditions de l'appareil et appareil utilisé**

- 1. Commutateur du sélecteur d'entrée . tuner (synthonisateur)
- 2. Commutateur de commande DC (C.C.)
- 3. Commande d'équilibrage centre
- 4. Commande du volume 0dB (MAX.)
- 5. Voltmètre à C.C. (modèle de précision)

Avertissement
Effectuer le réglage au moins 2 minutes après que l'interrupteur d'alimentation air éré mis en marche.

Points de réglage	Raccordements du voltmètre à C.C.	VR à régler	Procédure
Réglage de compensation du C.C. (Amplif. d'entraînement)	Canal de gauche Voltmètre à C.C. raccordé entre TP1 et TP2 (terre).	VR501	Ajuster VR501 (canal de gauche) et VR502 (canal de droite) de telle sorte que la lecture du voltmètre à C.C. soit de 0 ± 0,1mV.
	Canal de droite Voltmètre à C.C. raccordé entre TP3 et TP2 (terre).	VR502	
Réglage de compensation du C.C. (Amplif. de gain élevé)	Canal de gauche Voltmètre à C.C. raccordé à la borne de sortie. (Sortie du pré-amplif.)	VR801	Ajuster VR801 (canal de gauche) et VR802 (canal de droite) de telle sorte que la lecture du voltmètre à C.C. soit de 0 ± 0,5mV.
	Canal de droite Voltmètre à C.C. raccordé à la borne de sortie. (Sortie du pré-amplif.)	VR802	

SU-A6MK2

PROCEDIMIENTO DE AJUSTE

● Condiciones del aparato e instrucciones usadas

1. Interruptor selector de entrada tuner
(sintonizador)
2. Interruptor de operación DC (C.C.)
3. Control de equilibrio. center (centro)
4. Control de volumen. 0dB (MAX.)
5. Voltímetro de C.C. (tipo de precisión)

Precaución

Hacer el ajuste por lo menos 2 minutos después de conectar el interruptor de alimentación.

Items de ajuste	Conexiones de volti	VR ajustado	Procedimiento
Equilibrio de CC. (Amp. excitador)	Canal I Voltímetro de C.C. conectado entre TP1 y TP2 (TIERRA).	VR501	Ajustar VR501 (Canal I) y VR502 (Canal D) de manera que la lectura de voltímetro de C.C. sea $0 \pm 0,1\text{mV}$.
	Canal D Voltímetro de C.C. conectado entre TP3 y TP2 (TIERRA).	VR502	
Equilibrio de CC. (Amp. de ganancia alta)	Canal I Voltímetro de C.C. conectado al terminal de salida (Pre-salida).	VR801	Ajustar VR801 (Canal I) y VR802 (Canal D) de manera que la lectura de voltímetro de C.C. sea $0 \pm 0,5\text{mV}$.
	Canal D Voltímetro de C.C. conectado al terminal de salida (Pre-salida).	VR802	

CHANGE

REPLACEMENT PARTS LIST

- (1) Mentioned in this parts list are only those changed in Model No. SU-A6MK2 (K) for destination [M] area.
- (2) Important safety notice: Components identified by Δ mark have special characteristics important for safety. When replacing any of these somponents, use only manufacturer's specified parts.
- (3) The "S" mark is service standard parts and may differ from production parts.

Ref. No.	Change of Part No.		Part Name & Description	
	SU-A6MK2 [M]	SU-A6MK2 [D, EK, EW, EB, EF, EH, XA, XL, Ei, PA, PE, PC]	Area	
TRANSFORMER				
T1	SLT5K165	SLT5L185 Δ		Power Source
FUSES				
F1, 2	Addition	XBA2C03TR0 Δ		250V, T315mA
F3	Addition	XBA2C04TR0 Δ		250V, T400mA
SWITCHES				
S1	ESB9939T	ESB9939S Δ		Power switch
S2	Addition	ESE3787 Δ		Voltage selector
RESISTORS				
R412	ERD25FJ332	ERD25FJ392 S		Carbon, 1/4W, 3.9k Ω
R442	Addition	ERDS2TJ101		Carbon, 1/4W, 100 Ω
CAPACITORS				
C2	ECKDKC103PF2	Deletion	[Other]	
		ECKDKC103PF2	[XA, PA, PE, PC]	Ceramic, AC400V 0.01 μF
C416	Addition	ECKD1H271KB S		Ceramic, 50V 270pF
C417	Addition	ECCD1H181K S		Ceramic, 50V 180pF
CABINET AND CHASSIS PARTS				
35	SJS601-3	Deletion	[Other]	
		SJS601-3 Δ	[XA, PA, PE, PC]	Socket, AC Outlet (1)
36	SHR129	SHR127	[Other]	Bushing, AC Cord (1)
		SHR129	[EK]	Bushing, AC Cord (1)
		SHR131	[XL]	Bushing, AC Cord (1)
37	SJA109	SJA138-3 Δ	[Other]	AC Cord (1)
		QFC1205M Δ	[EK]	AC Cord (1)
		QFC1207MA Δ	[XL]	AC Cord (1)
		SJA121 Δ	[XA, PA, PE, PC]	AC Cord (1)

Ref. No.	Change of Part No.		Part Name & Description	
	SU-A6MK2 [M]	SU-A6MK2 [D, EK, EW, EB, EF, EH, XA, XL, Ei, PA, PE, PC]	Area	
39	SGP6050C	SGPUA6MK2-KD	[D, Ei, EB]	Rear Panel (1)
		SGPUA6MK2-KW	[EW]	Rear Panel (1)
		SGPUA6MK2-KK	[EK]	Rear Panel (1)
		SGP6050-1A	[EF, EH]	Rear Panel (1)
		SGP6050-2A	[XL]	Rear Panel (1)
59	Addition	SMN1912		Bracket, Voltage Selector (1)
SCREW				
N28	Addition	XTB3+14BFZ		\oplus 3 x 14 (2)
PACKING PARTS				
P3	Addition	SPS2955-8	[XL] only	Pad, left side (1)
P4	Addition	SPS2957-8	[XL] only	Pad, Right side (1)
P5	SPG4791	SPG4791	[Other]	Carton Box (1)
		SPG4793	[EF]	Carton Box (1)
		SPG4794	[XL]	Carton Box (1)
		SPG4836	[EK]	Carton Box (1)
ACCESSORIES				
A3	SQF12025	SQF12027	[Other]	Instruction Book (1)
		SQF12029	[XA, PC]	Instruction Book (1)
		SQF12030	[PA, PE]	Instruction Book (1)
A5	Addition	SJP9215 Δ	[XA, PA, PE, PC] only	Plug Adaptor (1)
A6	Addition	SJP9003		Plug, TV, VTR (4)
A7	Addition	SJP9004		Plug, TV Out (1)

REPLACEMENT PARTS LIST

Notes:

- Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
- Important safety notice: Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
- The "©" mark is service standard parts and may differ from production parts.
- The parenthesized numbers in the column of description stand for the quantity per set.

Areas

- * [D] is available in Scandinavia.
- * [EK] is available in United Kingdom.
- * [EW] is available in Switzerland.
- * [EB] is available in Belgium.
- * [EF] is available in France.
- * [EH] is available in Holland.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [XL] is available in Australia.
- * [Ei] is available in Italy.
- * [PA] is available in far East PX.
- * [PE] is available in European Military.
- * [PC] is available in European Audio Club.

Ref. No.	Part No.	Part Name & Description
INTEGRATED CIRCUITS		
IC101, 501, 601, 701, 801	SVINJM4560DX	Equalizer, Drive Buffer, Amp
IC201, 202, 204, 205	SVIUPD4002BC	Input selector control
IC203	SVIUPD4072BC	Input selector Control
IC301~305	MN6631A	Input selector (Voice signal)
IC401, 402	SVIUPD4066BC	Input selector (Video signal)
IC403	DN74LS05	Inverter
IC702, 802	AN6552F	Buffer, DCservo
IC901	AN78M18	Regulator
IC902	AN79M18	Regulator
IC903	AN78M05	Regulator
TRANSISTORS		
Q101~108	2SK369-GR	Differential amp
Q201~208, 214, 215, 217, 501, 502, 507~510, 901~904	2SC1685-QNC	Inverter, Input selector, Relay drive
Q209~213, 216, 407, 408, 503, 504, 751	2SA1015-Y	Inverter, Input selector, switching
Q401~406	2SA733-P1	Buffer amp
Q505, 506, 601, 602	2SK389-GR	Differential amp
FUSES		
F1, 2	XBA2C03TRO	250V, T315mA
F3	XBA2C04TRO	250V, T400mA
DIODES		
D101, 102, 202~209, 219, 221, 261~268, 501~504, 601, 602, 911, 912, 915	MA162A	Switching
D201	MA1100-M	10V, Zener
D211~218	SVDMC911	Input selector
D220	SVDMZ303BM	3V, Zener
D251~260, 351	SVDP5533K	Input selector IND
D401, 505, 506	MA27W-A	Switching
D402~404	MA162A	Input selector
D405	MA1068-M	6.8V Zener
D406	MA1056M	5.6V Zener
D551	SVDP5735S	Muting IND
D751~754	SVDP5533K	Rec output
D755	SVDAY5533K-M	DC IND
D901~904, 906~910	SVDSRIK2	Rectifier
D913	MA1082M	8.2V Zener
D914	MA1047A	4.7V Zener
COILS		
L101, 102	SLQW470-2P	Choke
L401	SLQX181-1D	Choke
L801, 802	RLQX1013-D	Choke
L901, 902	SLQZ650MH49	Choke
TRANSFORMERS		
T1	SLT5L185	Power Source

Ref. No.	Part No.	Part Name & Description
VARIABLE RESISTORS		
VR501, 502	EVNK6AA00B52	DC offset adj, 500 Ω (B)
VR503	EWGHC0454703	Balance
VR552	EWI6SA049101	Volume
VR701, 702	EWGHC0054C15	Treble, super treble 100K Ω (C)
VR703	EWGHCY054530	Bass
VR704	EWKKS5A531B53	Supper Bass, 5K Ω (B)
VR801, 802	EVNK6AA00B23	DC offset adj, 2K Ω (B)
RELAY		
RLY901	SSY9	output
COMPONENT COMBINATIONS		
Z201, 202	EXBP84104K	100k Ω x 4
Z203, 204	EXFP6103ZW	0.01 μ F x 6
Z901, 902	SXRF5203ZSM	0.01 μ F x 2
SWITCHES		
S1	ESB99399S	Power switch
S2	ESE3787	Voltage Selector
S101, 301	SSH2071	Phono, terminal selector
S251~258	SSG13	Input selector
S302~304	SSH469	Tape monitor
S305	RSS42A	Computer control
S501, 502	SSH2073	Rec mode, Subsonic
S551	SSH1139	Muting
S701, 702	SSH1137	Operation, supper Bass
S751~753	SSH471	Rec output
CABINET AND CHASSIS PARTS		
1	SGU187	Transparent plate (1)
2	SGWUA6MK2-KN	Front panel Ass'y (1)
3	SNE2083	Rock pin (1)
4	SHG6131	Spacer (1)
5	SHR9575	Spacer (1)
6	SUB51	Hinge, Operation Lever(R) (1)
7	SUB53	Hinge, Operation Lever(L) (1)
8	SUB57	Operation Lever (R) (1)
9	SUE23-1	Holder, Operation Lever (1)
10	XUC3FT	E Ring (1)
11	SUB55	Hinge, Operation Lever (1)
12	SUS223	Spring (1)
13	SBC639	Button (1)
14	SHG6129	Spacer (1)
15	SUE25-1	Holder, Gear (1)
16	SUB65	Gear (1)
17	SUB59	Gear (2)
18	SUB63	Gear (1)
19	SBCUA6MK2-KN	Input selector, Plate (1)
20	SGL165	Input selector, Spacer (1)
21	SGXUA6MK2-KN	Input selector, Button (1)
22	SDU241	Spacer, Muting (1)

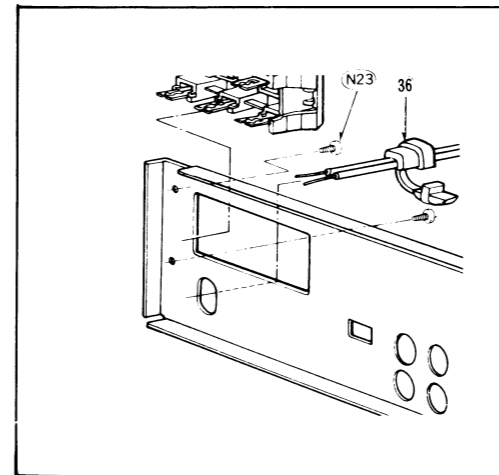
Ref. No.	Part No.	Part Name & Description
23	RHR969ZA	Lock pin (1)
24	SBN1169	Knob, Volume (1)
25	SHP9377	Spacer, Volume (1)
26	SBC621	Button, Rec selector (4)
27	SBC627	Button, Power (1)
28	SBN1167	Knob (5)
29	SBC399T	Button (5)
30	SMCUA6MK2-KN	Bracket, Power Transformer (1)
31	RJR2B	Holder (1)
32	SKU8790-3	Bottom Board (1)
33	SKL247-2	Foot (4)
34	SUB99	Connection Rod (5)
35 [XA, PA, PE, PC] only Δ	SJS601-3	Socket, AC Outlet (1)
36 [EK]	SHR129	Cord Bushing (1)
36 [XL]	SHR131	Cord Bushing (1)
36 [other]	SHR127	Cord Bushing (1)
37 [XA, PA, PE, PC]	SJA121	AC Cord (1)
37 [XL]	QFC1207MA	AC Cord (1)
37 [EK]	QFC1205M	AC Cord (1)
37 [other]	SJA138-3	AC Cord (1)
38	SMC1135	Shield Cover (1)
39 [XL]	SGP6050-2A	Rear Panel (1)
39 [D, E, EB]	SGPUA6MK2-KD	Rear Panel (1)
39 [EK]	SGPUA6MK2-KK	Rear Panel (1)
39 [EF, EH]	SGP6050-1A	Rear Panel (1)
39 [EW]	SGPUA6MK2-KW	Rear Panel (1)
39 [other]	SGP6050-3A	Rear Panel (1)
40	SJF3057-3N	Terminal, Computer Control (1)
41	SJF3057-4A	Terminal, Output(1)
42	SJF3057-3N	Terminal, Tape1, 2 (1)
43	SJF3059-7N	Terminal, Tape3, Tuner (1)
44	SJF3225-3SA	Terminal, Phono (1)
45	SJF3061-4N	Terminal, TV, VIDEO, Tape3 (1)
46	SJF3061-3N	Terminal, Tape2 (1)
47	SKC350B2	Cabinet (1)
48	SNE4017	Terminal, Grand (1)
49	SNTA421	Terminal, Grand (1)
50	SNEA204-2S	Terminal, Grand (1)
51	RJT204A	Terminal, Grand (1)
52	SHP9319	Space (1)
53	SJF3061N	Terminal, OUTPUT (1)
54	SHR301	Clamp (8)
55	SJF3061-2N	Terminal, VIDEO Signal (1)
56	SJT3511	Post (5 pin) (2)
56	SJT3611	Post (6 pin) (1)
57	SJS5331	Socket (3 pin) (1)
57	SJS5629	Socket (6 pin) (1)
58	SJT783	Terminal (3)
59	SMN1912	Plate, Voltage Selector (1)

Ref. No.	Part No.	Part Name & Description
SCREWS, WASHERS AND NUT		
N1	XTB3+8BFZ	Φ 3x8, Front Panel (1)
N2	XWC3B	Washer, Front Panel (2)
N3	XSN3+6S	Φ 3x6 (1)
N4	XWA3B	Φ 3 (4)
N5	XTB3+8B	Φ 3x8 (8)
N6	XTB3+10B	Φ 3x10 (5)
N7	XTB3+8B	Φ 3x8 (2)
N8	XWC3B	Washer (1)
N9	XTB3+8B	Φ 3x8 (2)
N10	XSN3+6S	Φ 3x6 (2)
N11	XWA3B	Washer (2)
N12	XTB3+8B	Φ 3x8, Shield (1)
N13	SNE4021	Washer, Volume (1)
N14	XSN3+6S	Φ 3x6 (5)
N15	XWA3B	Washer (2)
N16	XTB3+8B	Φ 3x8 (2)
N17	XTB3+8BFZ	Φ 3x8 (1)
N18	XTB3+12BFZ	Φ 3x12 (4)
N19	XTB3+8B	Φ 3x8 (8)
N20	XTV3+8B	Φ 3x8 (4)
N21	XWG3	Washer (4)
N22	XSS5+12FIS	Φ 5x12 Cabinet (8)
N23	XTB3+8BFZ	Φ 3x8 (8)
N24	XWC4B	Washer (2)
N25	XNG4BS	Nut (1)
N26	XTB3+8BFN	Φ 3x8 (2)
N27	XWT4	Washer (2)
N28	XTB3+14BFZ	Φ 3 x 14 (2)

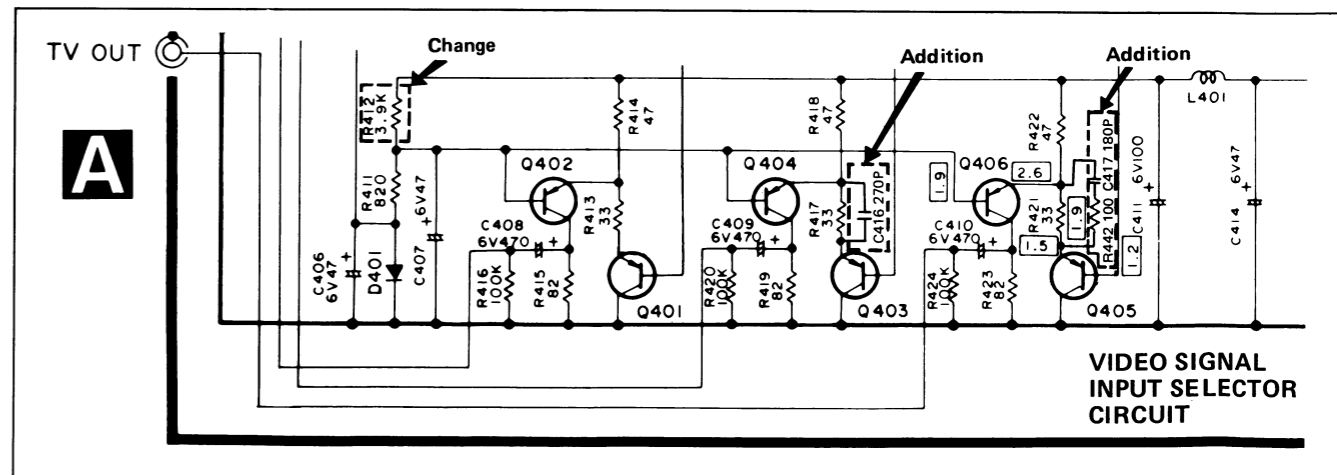
Ref. No.	Part No.	Part Name & Description
PACKING PARTS		
P1	SPP689	Polyethylene Bag (1)
P2	SPH207	Sheet (1)
P3 [XL] only	SPS2955-8	Pad, Left Side (1)
P3 [Other]	SPS2955-6	Pad, Left Side (1)
P4 [XL] only	SPS2957-8	Pad, Right Side (1)
P4 [Other]	SPS2957-5	Pad, Right Side (1)
P5 [EF]	SPG4793	Carton Box (1)
P5 [XL]	SPG4794	Carton Box (1)
P5 [EK]	SPG4836	Carton Box (1)
P5 [other]	SPG4791	Carton Box (1)
ACCESSORIES		
A1	SJP2239	Pin cord (1)
A2	TSX299	Pin cord (1)
A3 [XA, PC]	SQF12029	Instruction Book (1)
A3 [PA, PE]	SQF12030	Instruction Book (1)
A3 [other]	SQF12027	Instruction Book (1)
A4	SJPA11-1	Short Pin (10)
A5 [XA, PA, PE, PC] only Δ	SJP9215	Plug Adapter, AC (1)
A6	SJP9003	Plug, TV, VTR (4)
A7	SJP9004	Plug, TV Out (1)

SCHEMATIC DIAGRAM

- Change in exploded view [M] area



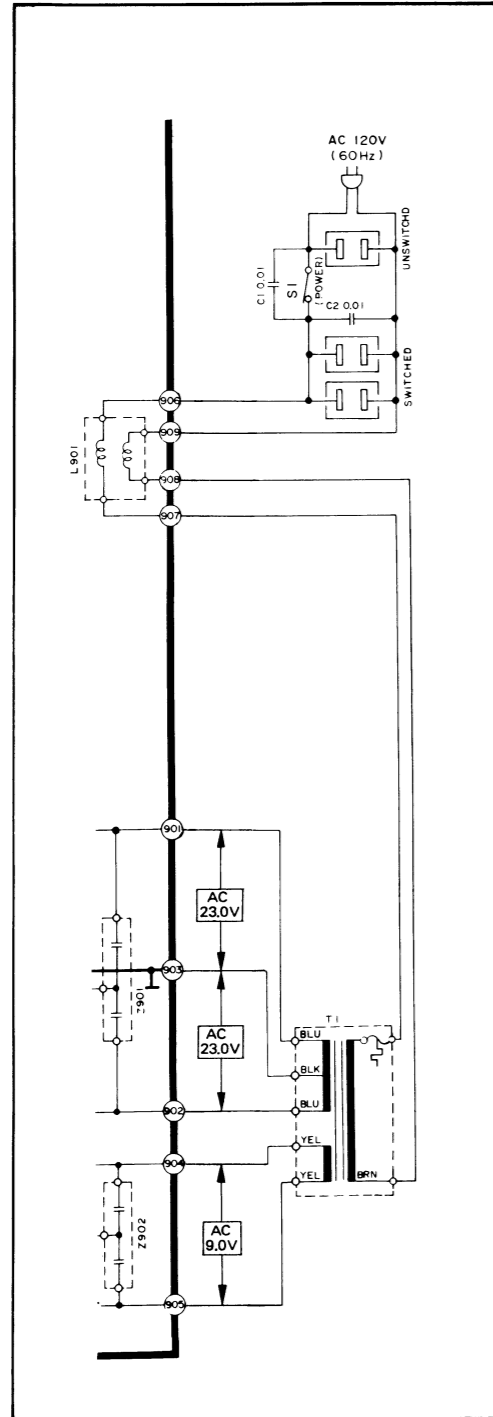
- Change in video signal input selector circuit



SU-A6MK2 SU-A6MK2

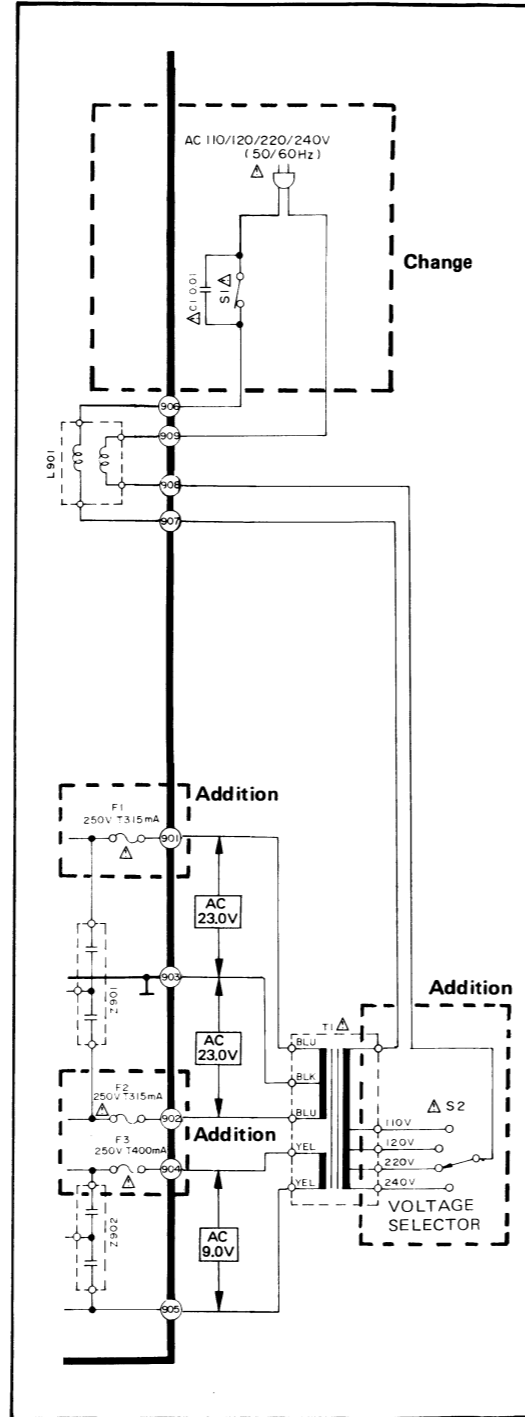
- Change in power supply circuit and area

[M] area

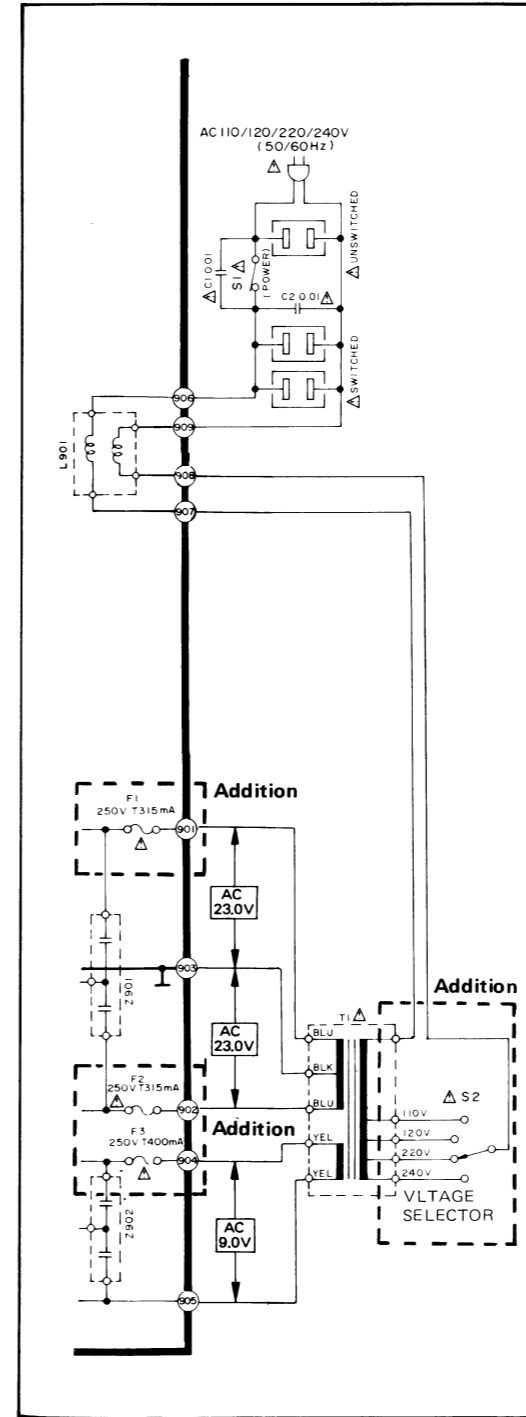


CHANGE
➔

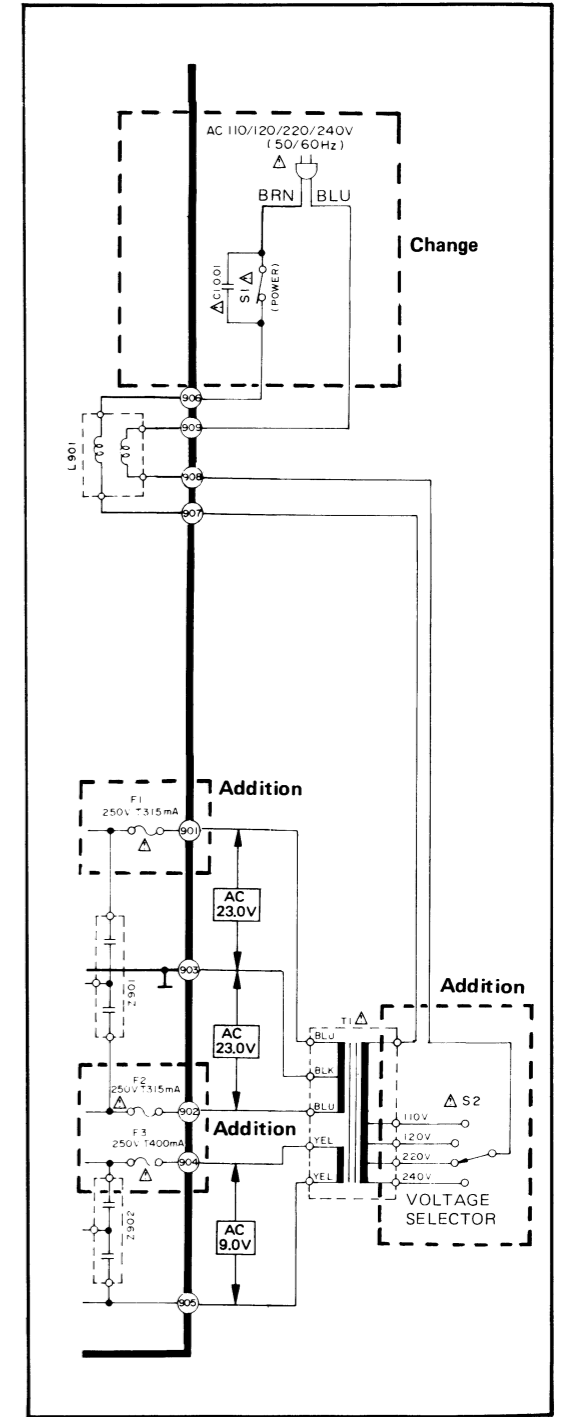
[EW], [Ei], [EB], [D]
[EK], [EF], [EH] areas



[XA], [PA], [PE], [PC] areas



[XL] area

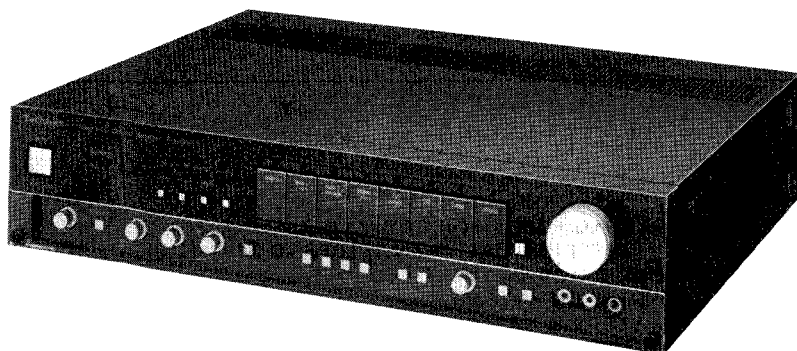


Service Manual

Stereo DC Control Amplifier

SU-A6MK2(K)

[M], [MC]



* The black type model is indicated by (K) in the Service Manual.

* The colors of this model is black type only.

Areas

* [M] is available in the U.S.A.
* [MC] is available in Canada.

Specifications

Specifications are subject to change without notice for further improvement.
Weights and dimensions shown are approximate.

(IHF '78)

AUDIO SECTION

Frequency response

PHONO MM 20 Hz~20 kHz
RIAA standard curve ± 0.2 dB
20 Hz~100 kHz
RIAA standard curve ± 0.5 dB

**TUNER, CD, VIDEO/AUX 1, TV/AUX 2,
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE
/DA PROCESSOR** 20 Hz~20 kHz, +0 dB, -0.1 dB
0.5 Hz~200 kHz, +0 dB, -3 dB

Rated output voltage

PRE OUT rated 2V
max. 8V

**TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE
/DA PROCESSOR (REC OUT)** 150 mV

Total harmonic distortion (20 Hz~20 kHz)

PHONO MM 0.002%
(0.5V output at vol. -30 dB, IHF '66)
0.002%
(3V output at vol. max. IHF '66)

PHONO MC 0.015%
(0.5V output at vol. -30 dB, IHF '66)
0.003%
(3V output at vol. max. IHF '66)

**TUNER, CD, VIDEO/AUX 1, TV/AUX 2,
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE
/DA PROCESSOR** 0.002%
(0.5V output at vol. -30 dB, IHF '66)
0.002%
(3V output at vol. max. IHF '66)

Maximum input voltage

PHONO MM 150 mV (160 mV, 1 kHz)

Input sensitivity

PHONO MM 0.63 mV (2.5 mV, IHF '66)

MC 25 μ V (100 μ V, IHF '66)

**TUNER, CD, VIDEO/AUX 1, TV/AUX 2,
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE
/DA PROCESSOR** 36 mV (150 mV, IHF '66)

S/N

PHONO MM 80 dB (90 dB, IHF '66)

MC 77 dB (75 dB, IHF '66)

**TUNER, CD, VIDEO/AUX 1, TV/AUX 2,
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE
/DA PROCESSOR** 97 dB (106 dB, IHF '66)

Input impedance

PHONO MM 47 kilohms

MC 220 ohms

**TUNER, CD, VIDEO/AUX 1, TV/AUX 2,
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE
/DA PROCESSOR** 47 kilohms

Output impedance

**TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE
/DA PROCESSOR (REC OUT)** 600 ohms

PRE OUT 2 ohms

Turnover frequency

BASS 500 Hz

SUPER BASS (12 dB/oct.) 75 Hz, 150 Hz

TREBLE 2 kHz

SUPER TREBLE 8 kHz

Shelving tone

BASS (50 Hz) -5 dB~+5 dB

SUPER BASS (30 Hz) 0 dB~+10 dB

TREBLE (20 kHz) -5 dB~+5 dB

SUPER TREBLE (50 kHz) -10 dB~+10 dB

Subsonic filter

20 Hz, -12 dB/oct.

Muting

-20 dB

Technics

Matsushita Engineering
and Service Company
50 Meadowland Parkway,
Secaucus,
New Jersey 07094

Panasonic Hawaii, Inc.
91-238 Kauhū St., Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric
of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

Panasonic Sales Company
Division of Matsushita Electric
of Puerto Rico, Inc.
Ave. 65 De Infantería, KM 9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

SU-A6MK2

VIDEO SECTION (VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR)

Output voltage (at 1V input, 75 ohms unbalanced) $1 \pm 0.1V_{p-p}$
 Maximum input voltage $1.5V_{p-p}$
 Input/output impedance 75 ohms unbalanced

GENERAL

Power consumption 20W
 Power supply AC 120V, 60 Hz
 Dimensions (W×H×D) $430 \times 98 \times 360$ mm
 (16-15/16" × 3-14/16" × 14-3/16")
 Weight 5.8 kg
 (12.8 lb.)

Note:
 Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

CONTENTS

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SAFETY PRECAUTION	2	SERVICING PARTS FOR EQUALIZER	
LOCATION OF CONTROLS	3	DIFFERENTIAL TRANSISTORS (Q101 ~ Q108)	13
RECORDING	4	BLOCK DIAGRAM	14, 15
DISASSEMBLY INSTRUCTIONS	5	SCHEMATIC DIAGRAM	16 ~ 21
ADJUSTMENT PROCEDURE	6	RESISTORS & CAPACITORS	22
PRINTED CIRCUIT BOARDS	7 ~ 11	REPLACEMENT PARTS LIST	23
WIRING CONNECTION DIAGRAM	11, 12	EXPLODED VIEWS	24, 25
BASIC OPERATION OF INPUT SELECTOR CONTROL CIRCUIT	13		

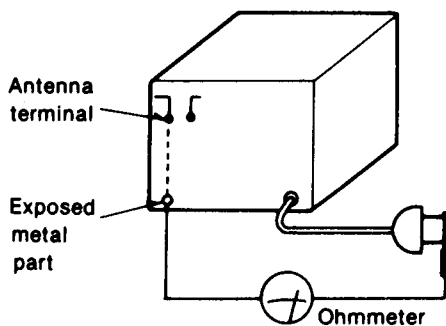
SAFETY PRECAUTION

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

INSULATION RESISTANCE TEST

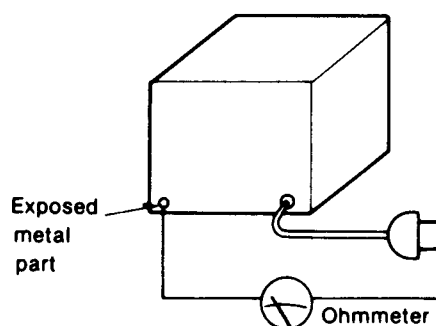
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between $3M\Omega$ and $5.2M\Omega$ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = $3M\Omega$ — $5.2M\Omega$



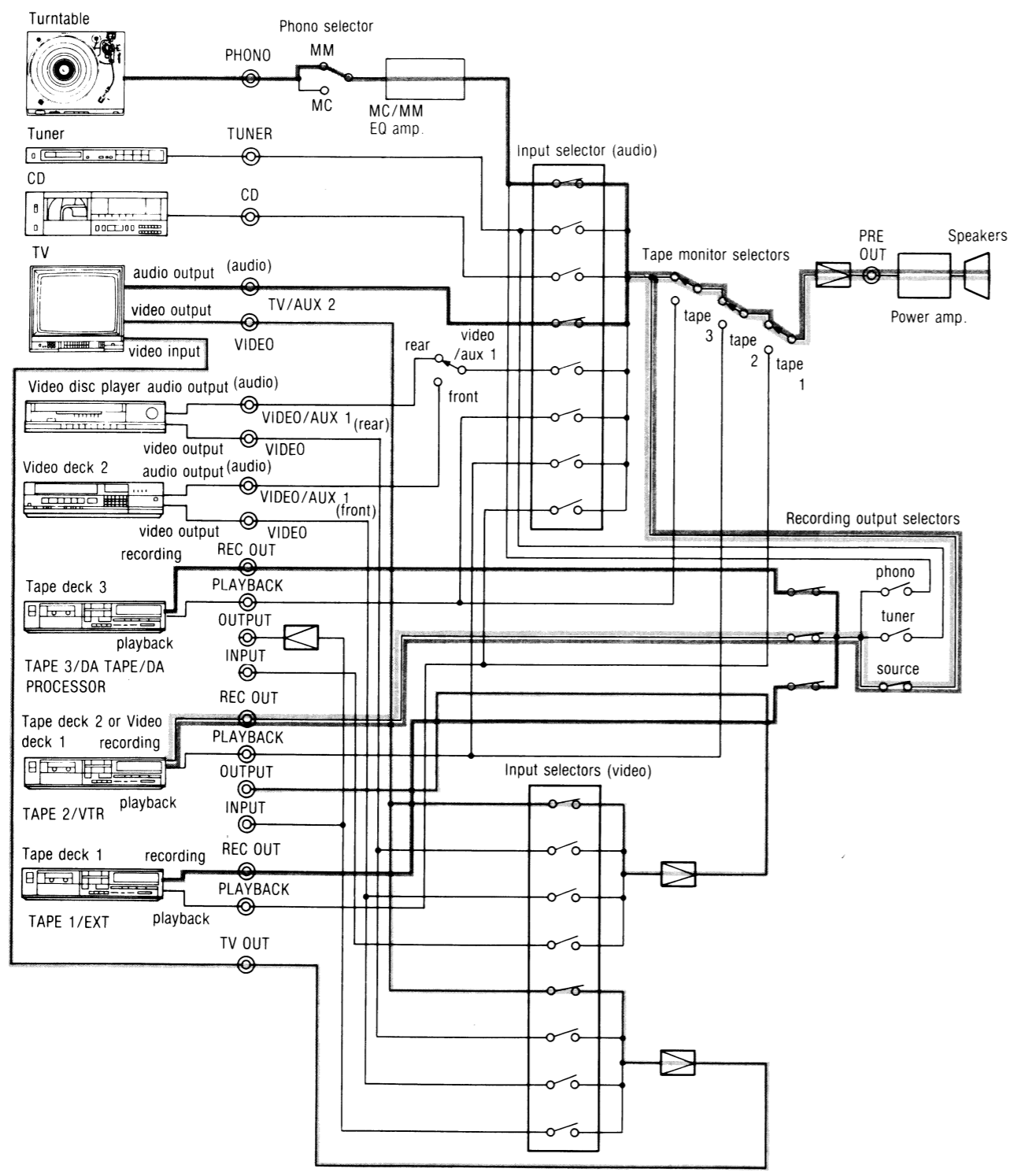
(Fig. B)

Resistance = Approx ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

RECORDING

- To record from a phono disc to 3 tape decks
- To record TV broadcasts



switch (0dB, -20dB)
 indicator
 Volume control
 Control panel door release
 audio input/auxiliary input 1
 (phono/aux 1 input) terminal
 audio input selector (rear, front)
 Phono selector (MM, MC)
 mono)
 20Hz)
 AC outlets
 switched
 l switch (off on)
 er control

DISASSEMBLY INSTRUCTIONS

<p>Ref. No. 1</p>	<p>How to remove the cabinet.</p>	<p>Ref. No. 2</p> <p>How to remove the bottom board.</p>
<p>Procedure 1</p>	<ul style="list-style-type: none"> Remove the 8 setscrews. 	<p>Procedure 2</p> <ul style="list-style-type: none"> Remove the 10 setscrews.
<p>Ref. No. 3</p>	<p>How to remove the front panel.</p>	
<p>Procedure 1 → 3</p>	<ul style="list-style-type: none"> Remove the 4 setscrews (19 ~ 22). Turn it over as shown by arrow. Remove the 4 setscrews of input selector P.C.B. 	
<p>Ref. No. 4</p>	<p>How to remove the control panel door.</p>	<p>Apply grease to these gears</p>
<p>Procedure 1 → 3 → 4</p>	<ul style="list-style-type: none"> Remove the 4 setscrews. Turn the control panel door hinge counterclockwise. When assembling, apply grease (Part No. SZZ0L09) to movable parts. 	<p>Apply grease to these gears</p>

ADJUSTMENTS PROCEDURE

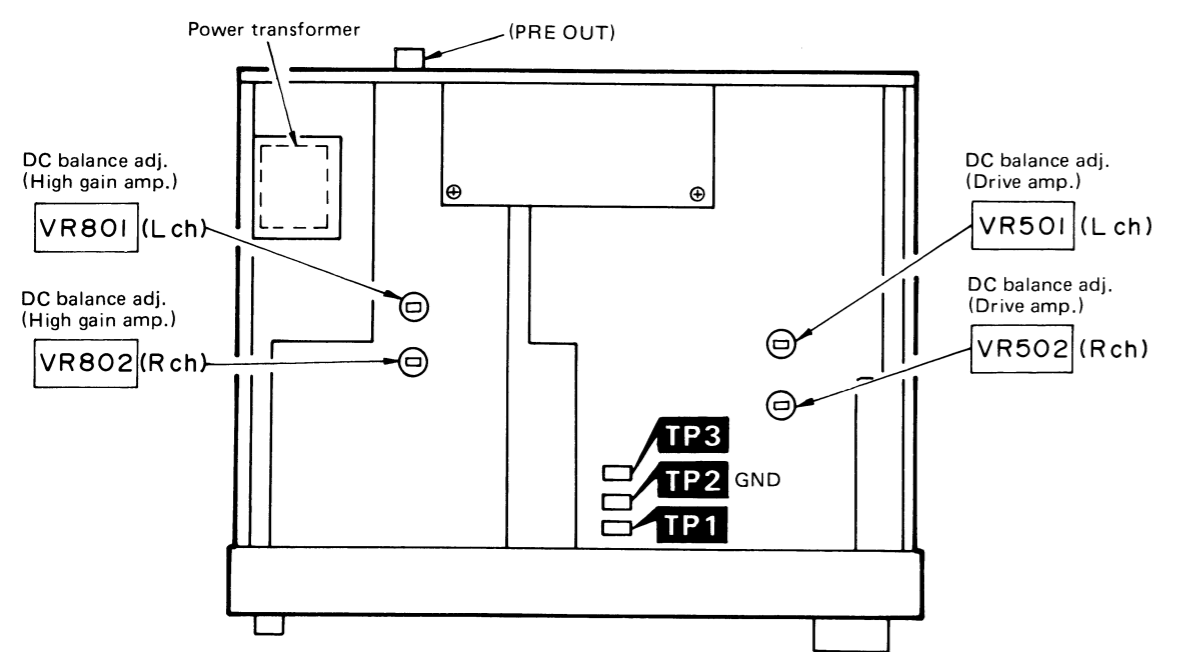
Conditions of the set, and instruments used

1. Input selectors switch tuner
2. Operation switch DC
3. Balance control center
4. Volume control 0dB (MAX.)
5. DC voltmeter (Precision type)

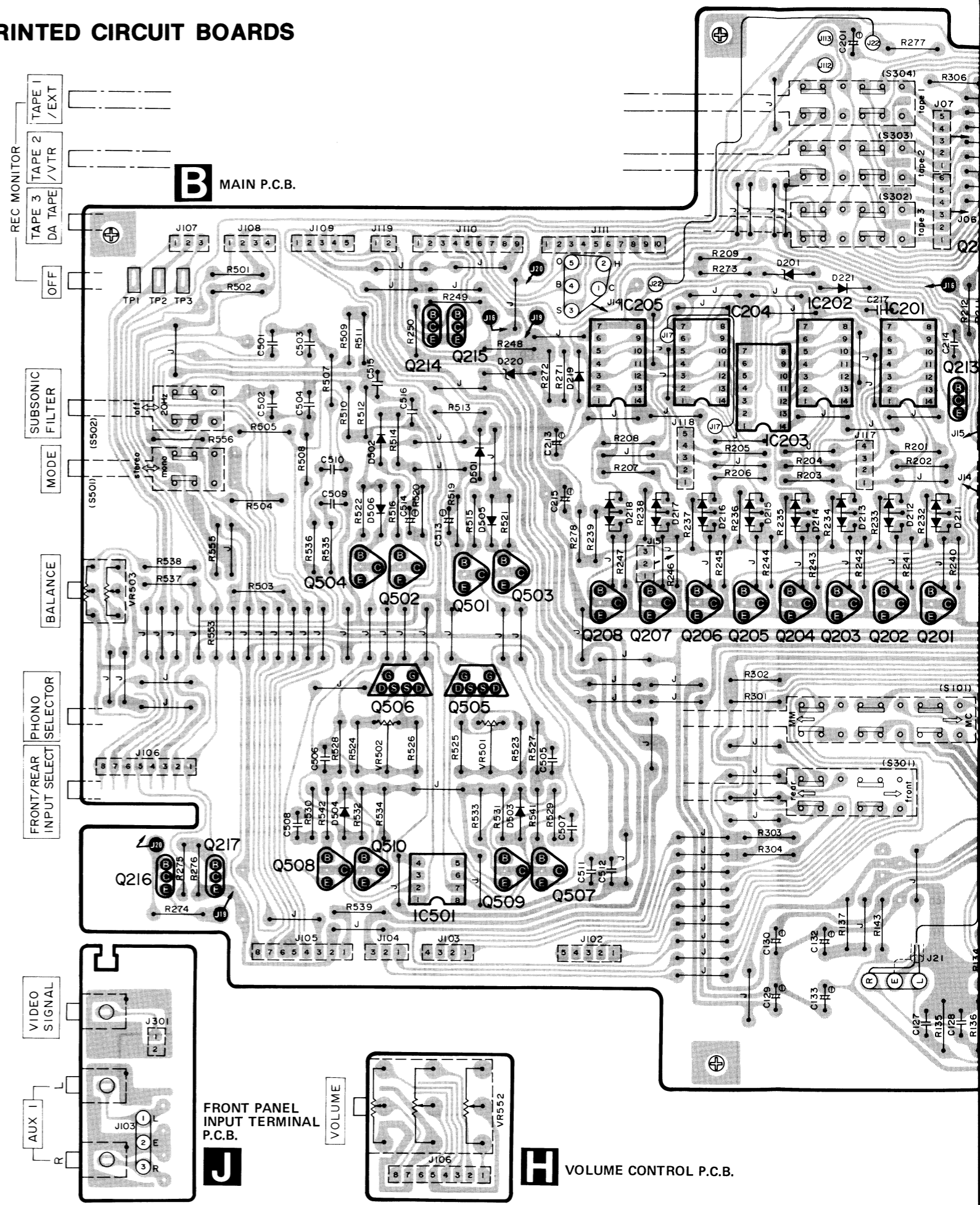
Caution
Make the adjustment at least 2 minutes after power switch ON.

Adjusting items	DC voltmeter connections	VR adjusted	Procedure
DC balance adj. (Drive amp.)	Lch: DC voltmeter connected between TP1 and TP2 (GND).	VR501	Adjust VR501 (Lch), and VR502 (Rch) so that DC voltmeter reading is $0 \pm 0.1\text{mV}$.
	Rch: DC voltmeter connected between TP3 and TP2 (GND).	VR502	
DC balance adj. (High gain amp.)	Lch: DC voltmeter connected to output terminal (Pre out).	VR801	Adjust VR801 (Lch), and VR802 (Rch) so that DC voltmeter reading is $0 \pm 0.5\text{mV}$.
	Rch: DC voltmeter connected to output terminal (Pre out).	VR802	

Adjustment points



PRINTED CIRCUIT BOARDS



PRINTED CIRCUIT BOARDS

0dB (MAX.)

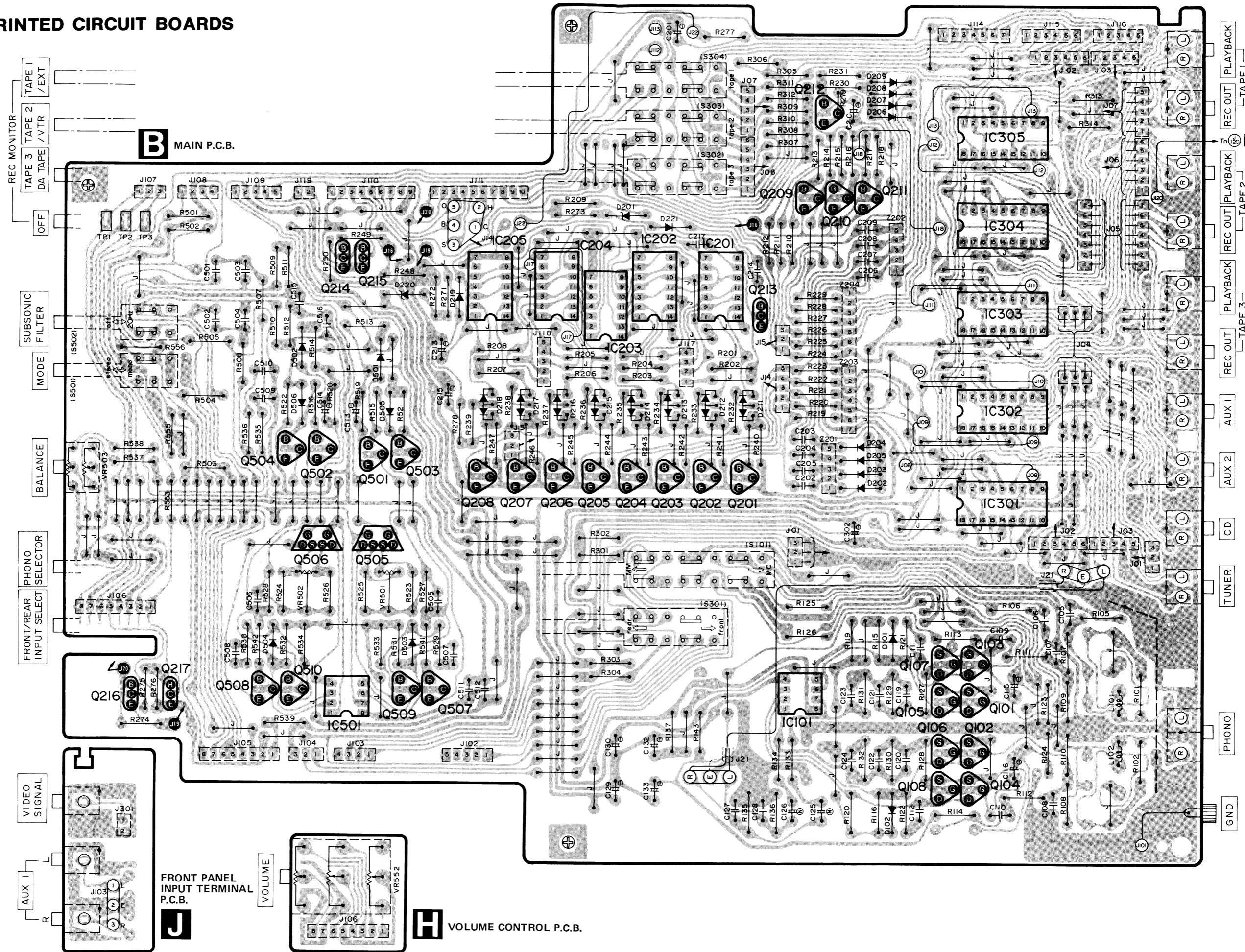
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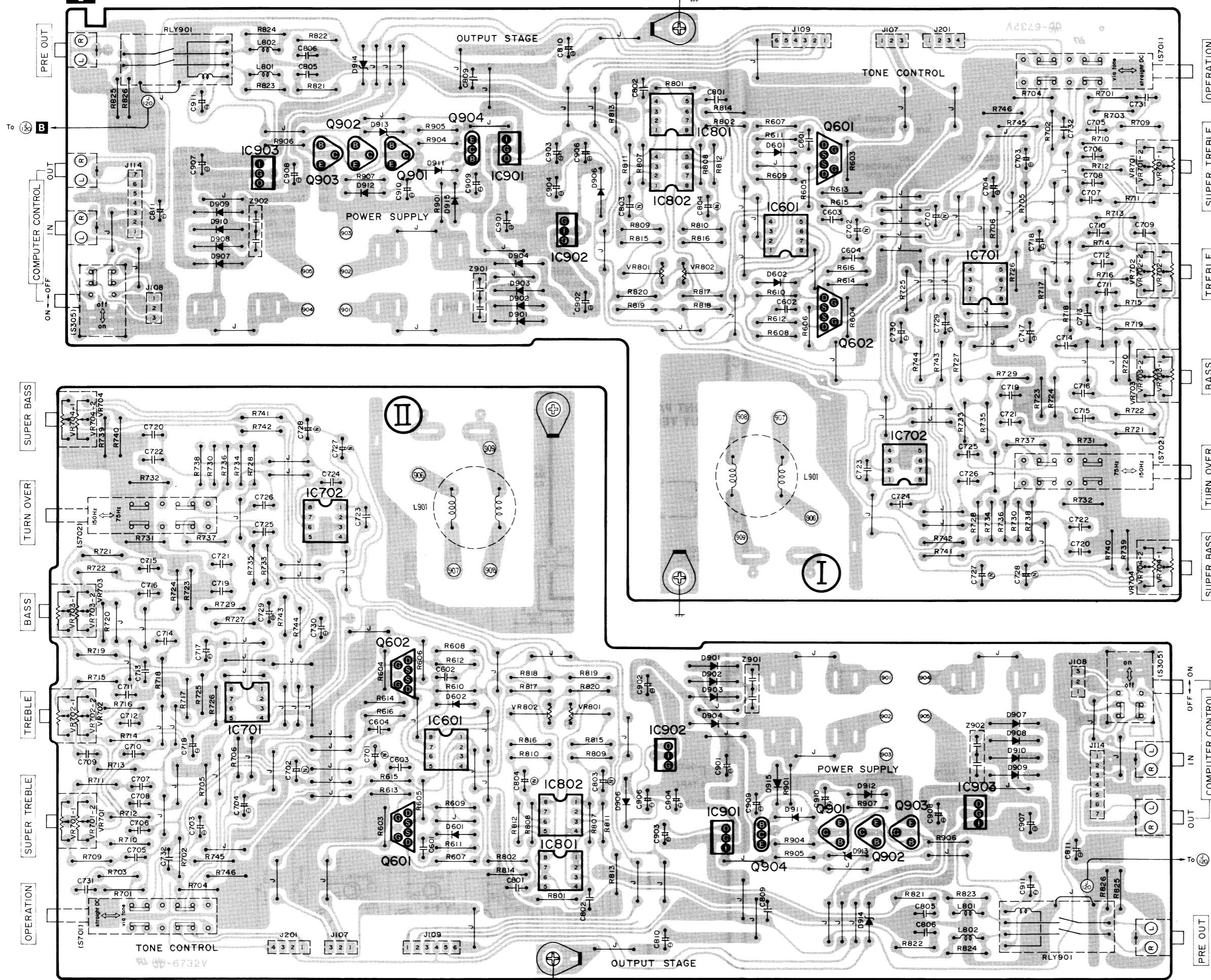
ch)

ch)

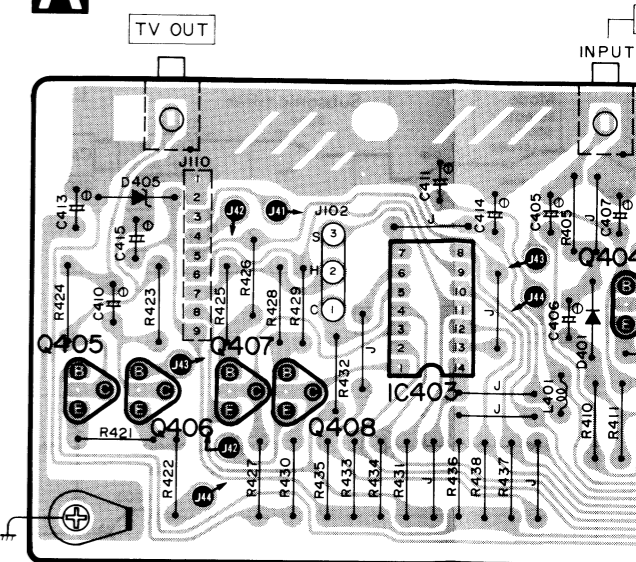


(This P.C.B. is available in two types ① and ② for the convenience of manufacture. ① or ② is printed on the P.C.B. So, check the type of P.C.B. before referring to the diagram shown here. The circuits of types ① and ② are not different from each other.)

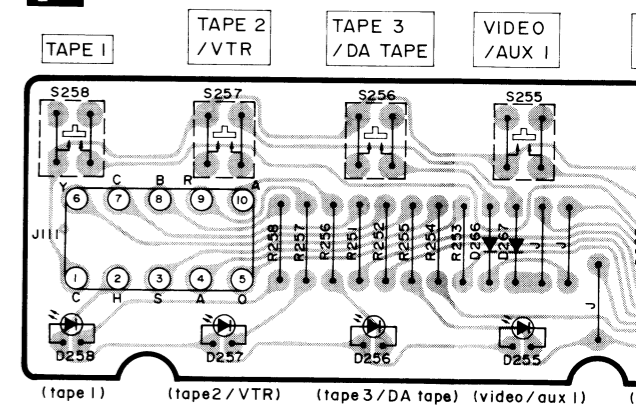
OUTPUT AMP/DC SERVO/POWER SUPPLY P.C.B.



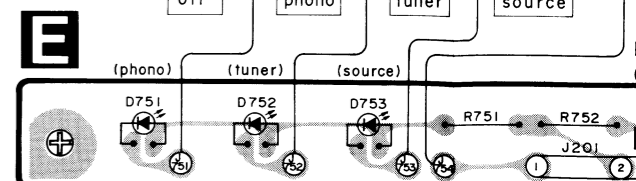
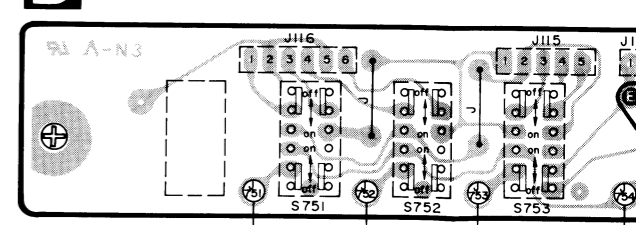
A VIDEO SIGNAL INPUT SELECTOR P.C.B.



F INPUT SELECTOR SWITCH/IND. P.C.B.

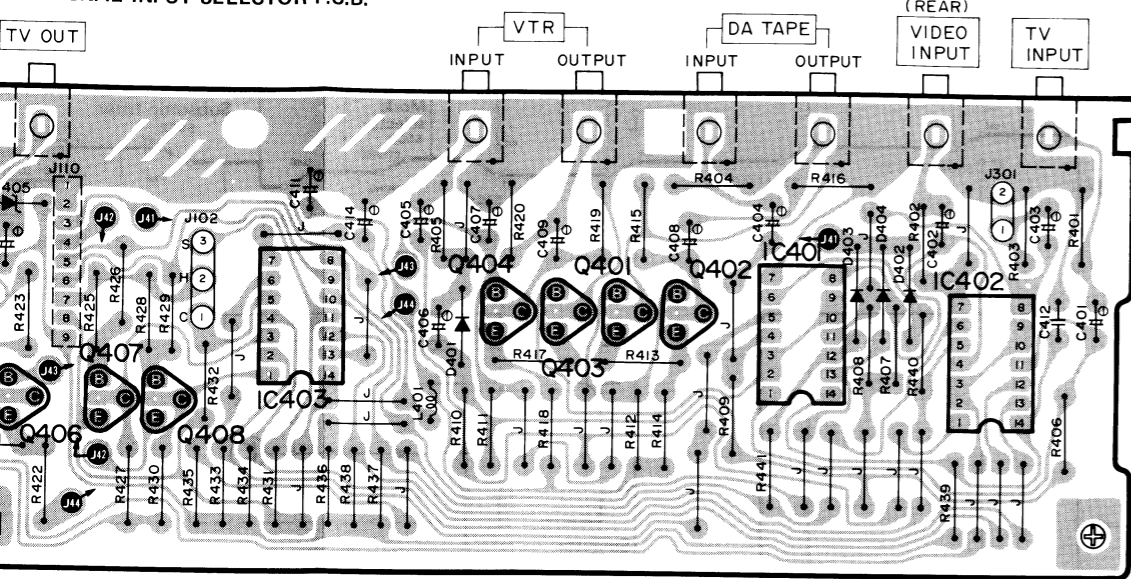


D RECORDING OUTPUT SELECTOR SWITCH P.C.B.

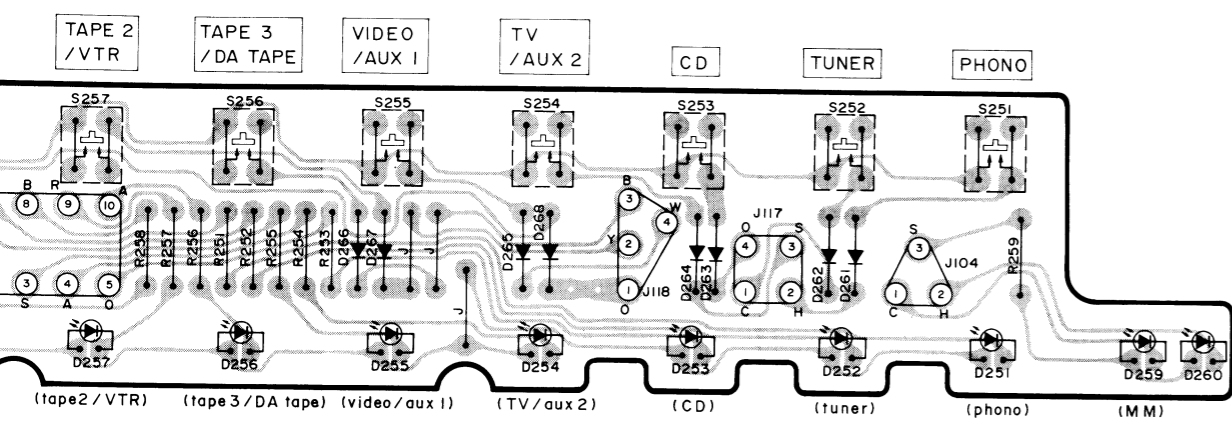


WIRING CONNECTION DIAGRAM (Top View)

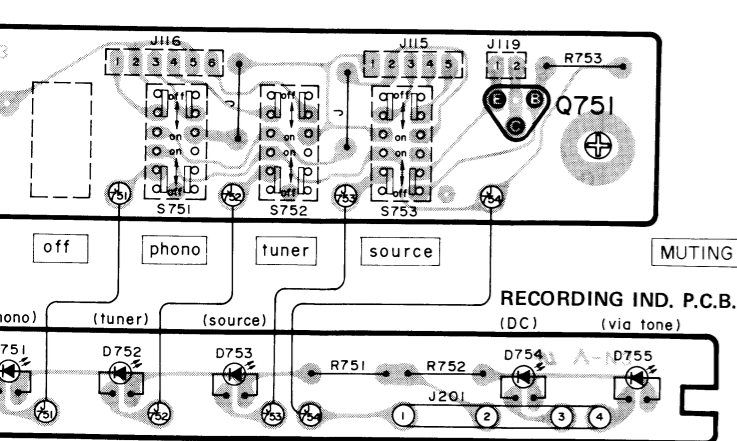
VIDEO SIGNAL INPUT SELECTOR P.C.B.



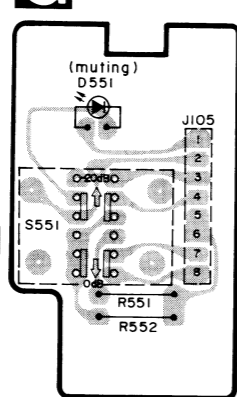
INPUT SELECTOR SWITCH/IND. P.C.B.



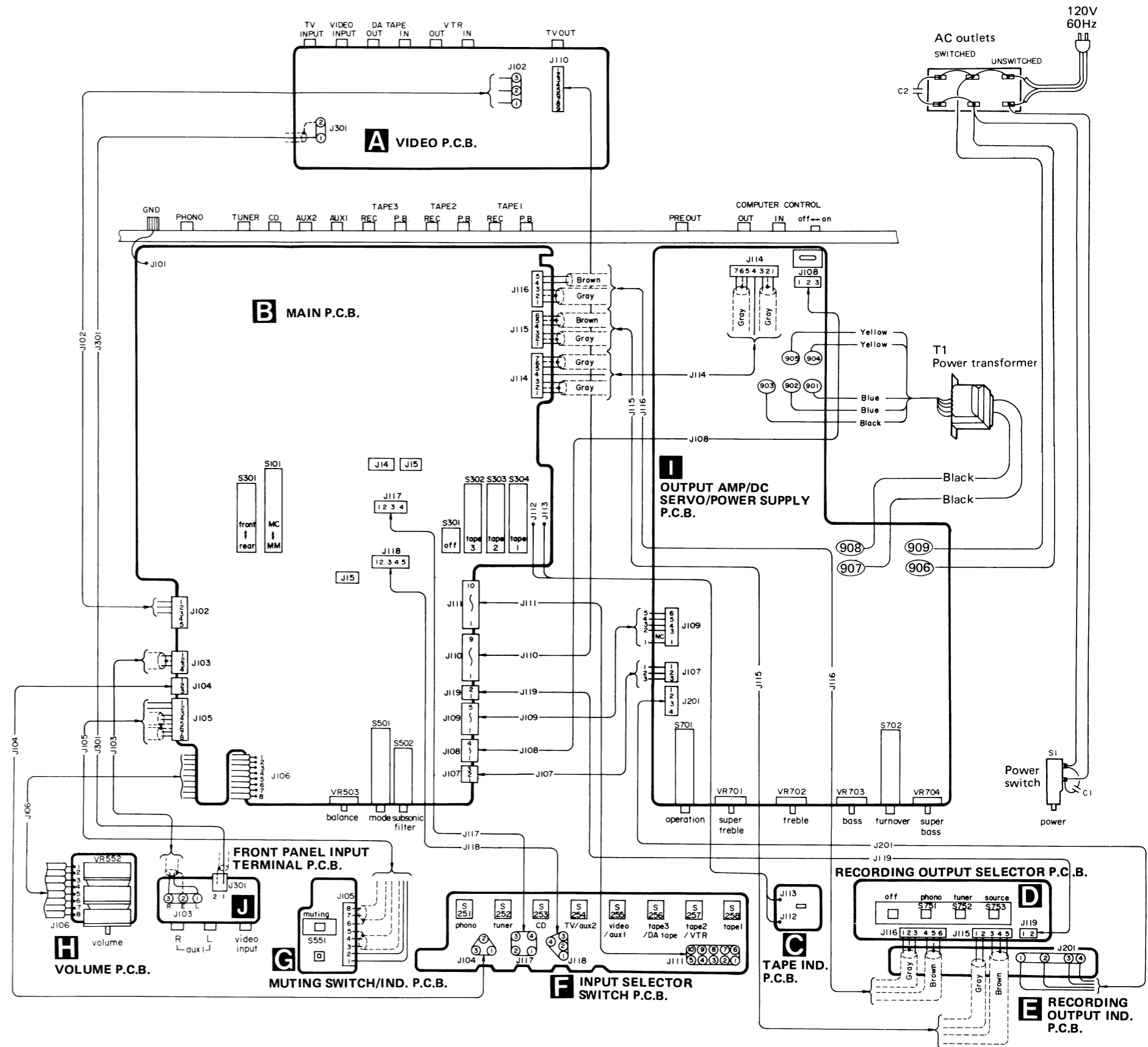
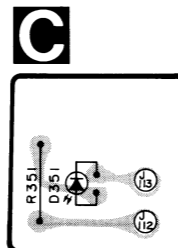
RECORDING OUTPUT SELECTOR SWITCH P.C.B.



MUTING/IND. P.C.B.

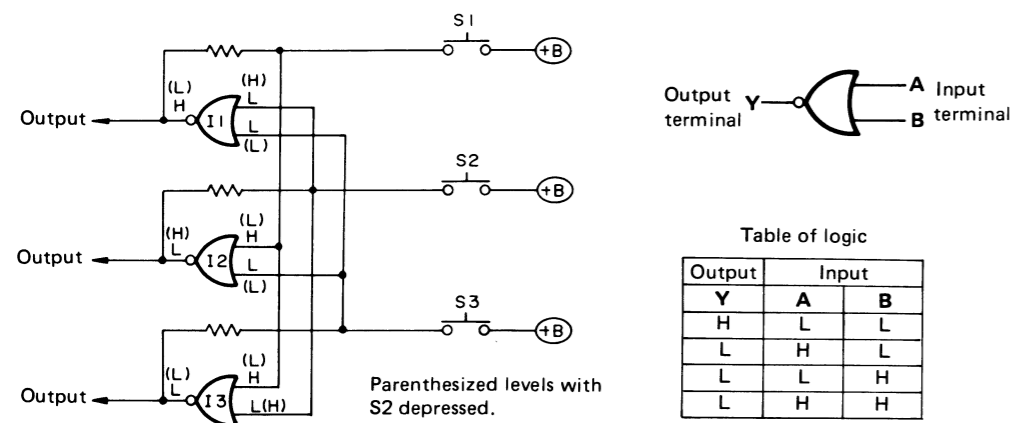


TAPE MONITOR IND. P.C.B.



BASIC OPERATION OF INPUT SELECTOR CONTROL CIRCUIT

The input selector control circuit is a flip-flop circuit using NOR gate. The output of NOR gate goes "L" when even one of the input terminals is at "H". For example, with tact switch S1 depressed as shown below, the level of signal applied to input terminals of I2 and I3 is "H", and the output goes "L". The outputs of I2 and I3 are applied to input terminals of I1, causing only the level of I1 to go "H". With S2 depressed, "H" is applied to input terminals of I1 and I3, causing the output of I1 to change from "H" to "L". The output is then applied to I2 and I3, changing the output of I2 to "H" and that of I3 to "L". The circuit of this unit is of 8-stage configuration as shown in the block diagram, and operates as explained above.



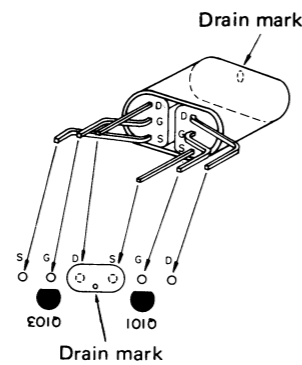
SERVICING PARTS FOR EQUALIZER DIFFERENTIAL TRANSISTORS (Q101 ~ Q108)

The equalizer differential transistors (Q101 ~ Q108) used in this unit are 2SK369. However, when replacing the parts, be sure to use servicing repair parts 2SK146.

• Pairs replaced

When one of the parts in pair shown below is replaced, remove the other one as well and insert 2SK146 instead.

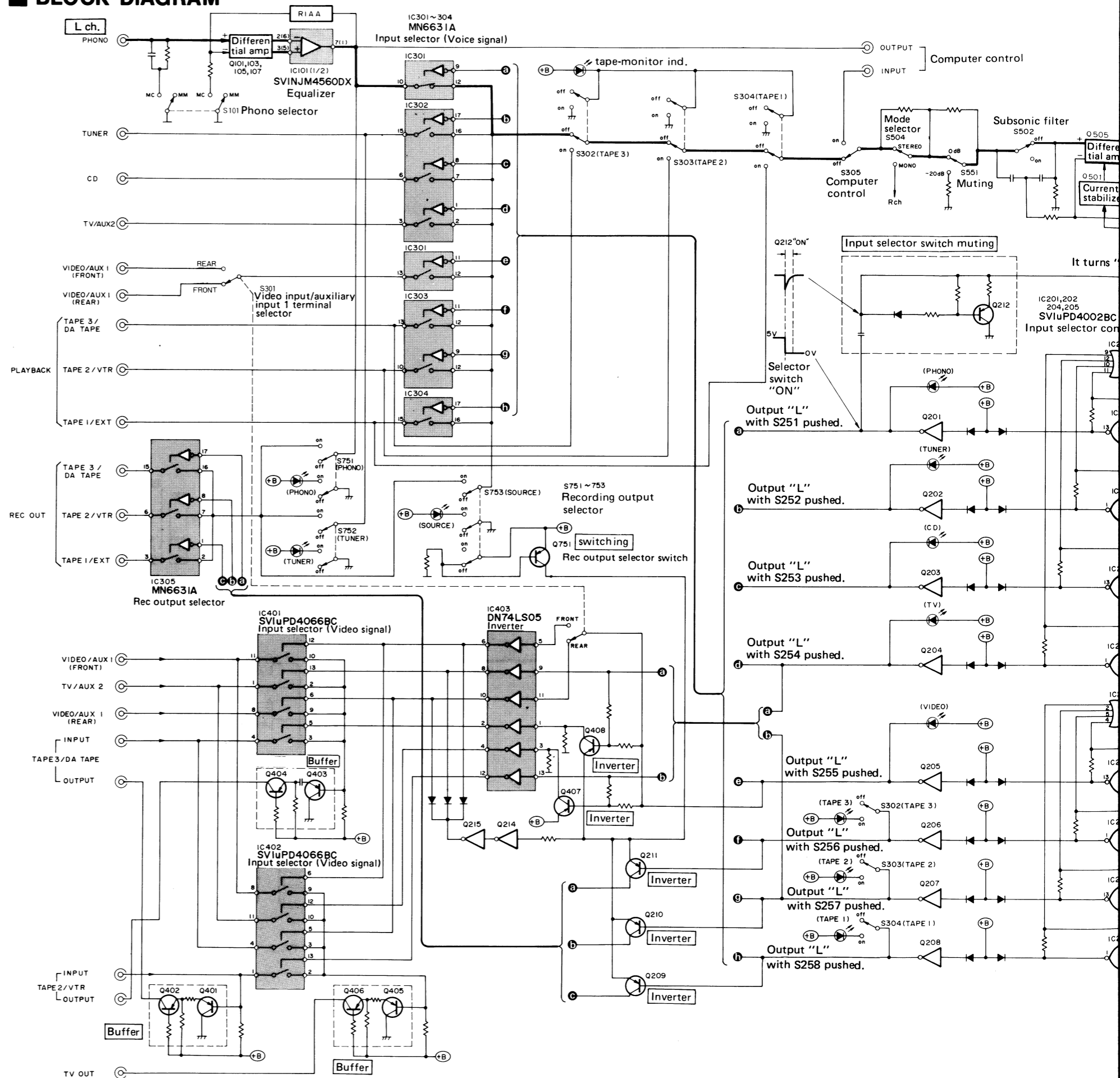
Combination	1	2	3	4
	Q101	Q102	Q105	Q106
	↓	↓	↓	↓
	Q103	Q104	Q107	Q108



• How to fit

- 2SK146 includes 2 transistors. So, bend the legs as shown and put 2 or 3mm tube on each gate leg to prevent shorting between the leads.
- 2SK146 must be correctly inserted according to D, G and S indicated on the surface.

BLOCK DIAGRAM



SCHEMATIC DIAGRAM

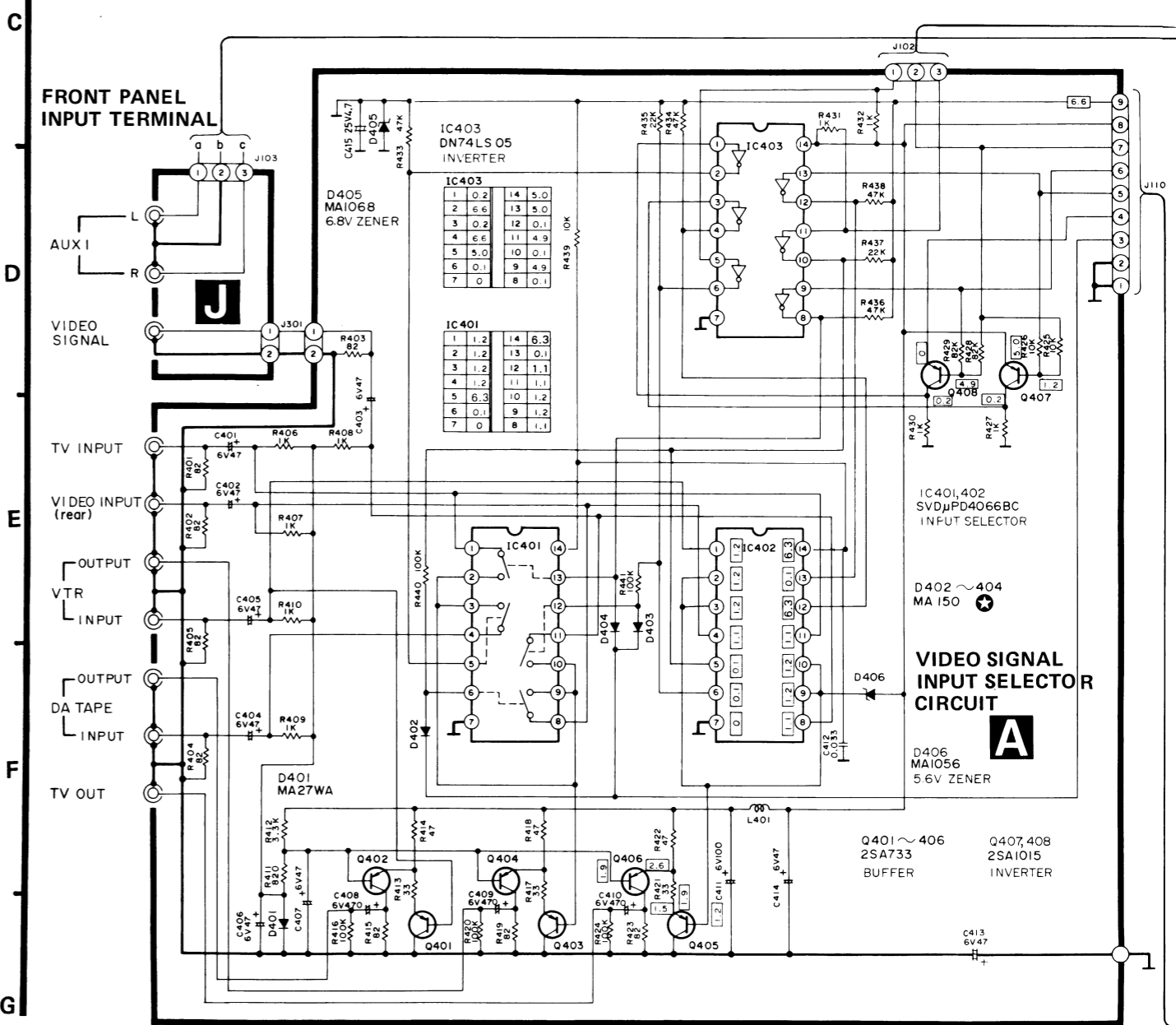
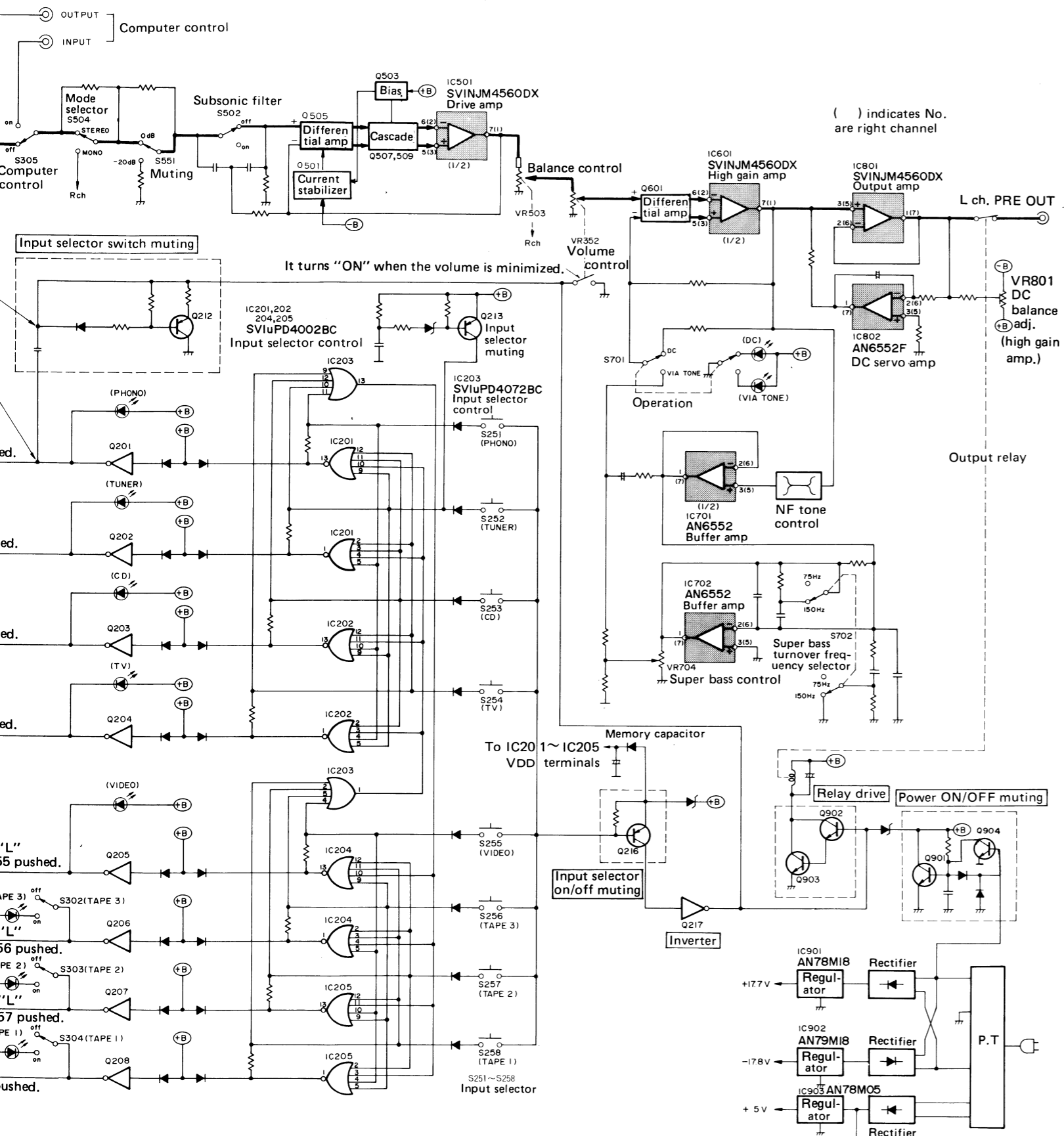
(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

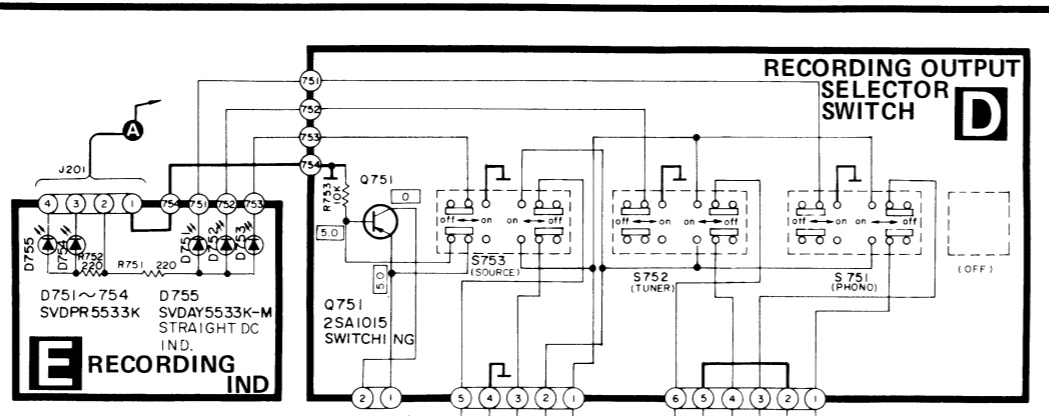
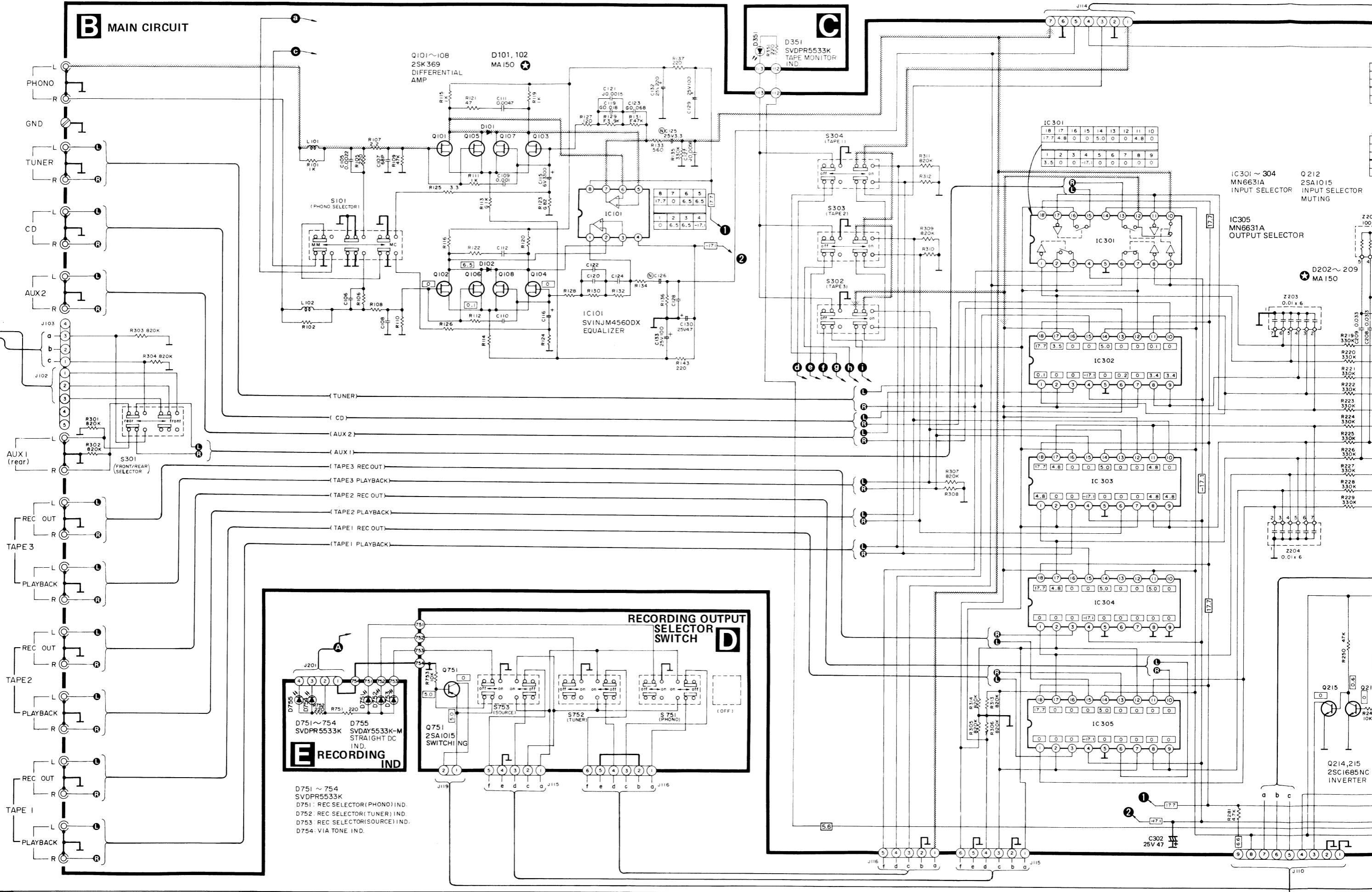
- 1. S1 : Power switch in "on" position
- 2. S101 : Phono selector switch in "MM"-position (MM → MC)
- 3. S251 ~ 258 : Input selector switch in "phono" position
S251: phono S255: video/aux 1
S252: tuner S256: tape 3/DA tape
S253: CD S257: tape 2/VTR
S254: TV/aux 2 S258: tape 1
- 4. S301 : Front/Rear selector in "Rear" position
- 5. S302 ~ 304 : Tape monitor switch in "off" position
S302: tape 3/DA tape S303: tape 2/VTR
S304: tape 1/ext
- 6. S305 : Computer control switch in "off" position
- 7. S501 : Mode selector switch in "stereo" position (stereo → mono)
- 8. S502 : Subsonic filter switch in "off" position (off → 20Hz)
- 9. S551 : Muting switch in "0dB" position (0dB → -20dB)
- 10. S701 : Operation switch in "straight DC" position (straight DC → via tone)
- 11. S702 : Turnover frequency switch in "150Hz" position (75Hz → 150Hz)

- 12. S751 ~ 753 : Recording selector switch in "off" position
S751: phono S753: source
S752: tuner
- 13. Indicated voltage values are the standard values for the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- 14. Phono signal lines of left channel.
- 15. Positive (+B) voltage lines.
- The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with ⊕ mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement parts, please use the part No. in the replacement parts list.

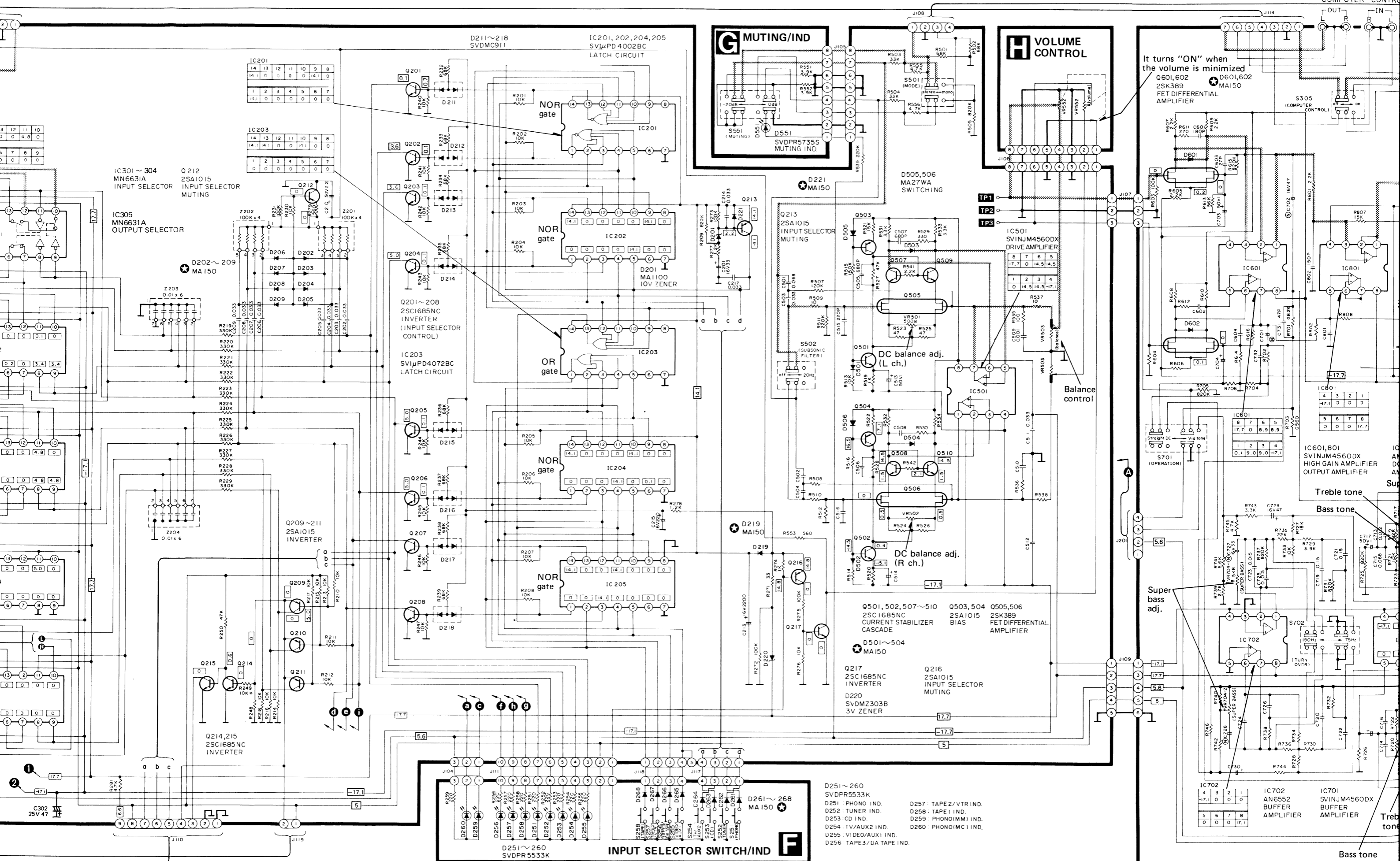
IMPORTANT SAFETY NOTICE
The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.



B MAIN CIRCUIT



D751 ~ 754
SVDP5533K
D751: REC SELECTOR(PHONO) IND.
D752: REC SELECTOR(TUNER) IND.
D753: REC SELECTOR(SOURCE) IND.
D754: VIA TONE IND.



- D251~260 SVDRP5533K
- D251 PHONO IND.
- D252 TUNER IND.
- D253 CD IND.
- D254 TV/AUX2 IND.
- D255 VIDEO/AUX1 IND.
- D256 TAPE3/UA TAPE IND.
- D257: TAPE2/VTR IND.
- D258: TAPE1 IND.
- D259: PHONO(IMM) IND.
- D260: PHONO(ICM) IND.

It turns "ON" when the volume is minimized
 Q601,602 2SK389
 D601,602 MA150
 FET DIFFERENTIAL AMPLIFIER

IC702 AN6552 BUFFER AMPLIFIER

IC701 SVINJM4560DX BUFFER AMPLIFIER

Treble tone

Bass tone

RESISTORS & CAPACITORS

- Notes:**
- Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - Important safety notice: Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
 - Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 - The "S" mark is service standard parts and may differ from production parts.
K = 1000 Ω , M = 1000K Ω
 - The unit of resistance is OHM (Ω).
P = 10⁻⁶ μ F
 - The unit of capacitance is MICROFARAD (μ F).

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value
ERG	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value

Numbering System of Capacitor

Example

ECKD	1H	103	Z	F
Type	Voltage	Value	Tolerance	Peculiarity
ECEA	50	M	R47	R
Type	Voltage	Peculiarity use	Value	Special use

Resistor Type	Wattage	Tolerance
ERD : Carbon	25 : 1/4W	F : \pm 1%
ERO : Metal Film	S1 : 1W	G : \pm 2%
		J : \pm 5%
		K : \pm 10%

Capacitor Type	Voltage		Tolerance
	ECEA Type	Others	
ECEA : Electrolytic	0J : 6.3V	2H : 500V	G : \pm 2%
ECEA : Non Polar Electrolytic	1C : 16V	ECQP1 : 100V	J : \pm 5%
ECCD : Ceramic	1E : 25V		K : \pm 10%
ECKD : Ceramic	1H : 50V		Z : +80%, -20%
ECQM : Polyester	25Z : 25V		M : \pm 20%
ECQP : Polypropylene			

RESISTORS

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
R101, 102	ERD25FJ102	1K	R248	ERD25FJ562	5.6K	R422	ERD25FJ470	47	R615, 616	ERD25TJ824	820K
R105, 106	ERD25FJ221	220	R249	ERD25FJ103	10K	R423	ERD25FJ820	82	R701, 702	ERO25CKF8201	8.2K
R107, 108	ERD25FJ2R2	2.2	R250	ERD25TJ104	47K	R424	ERD25TJ104	100K	R703, 704	ERO25CKF5600	560
R109, 110	ERD25TJ473	47K	R251, 252	ERD25FJ221	220	R425, 426	ERD25FJ103	10K	R705, 706	ERD25TJ824	820K
R111, 112	ERD25FJ102	1K	R253, 254	ERD25FJ221	220	R427	ERD25FJ102	1K	R709, 710	ERD25FJ392	3.9K
R113, 114	ERO25CKG1001	1K	R255, 256	ERD25FJ221	220	R428, 429	ERD25TJ823	82K	R711, 712	ERD25FJ122	1.2K
R115, 116	ERO25CKG1001	1K	R257, 258	ERD25FJ221	220	R430, 431	ERD25FJ102	1K	R713, 714	ERD25TJ223	22K
R119, 120	ERO25CKG1001	1K	R259	ERD25FJ221	220	R432	ERD25FJ102	1K	R723, 724	ERD25FJ562	5.6K
R121, 122	ERD25FJ470	47	R271	ERD25FJ330	33	R433, 434	ERD25TJ473	47K	R715, 716	ERD25FJ332	3.3K
R123, 124	ERO25CKF82R0	82	R272, 273	ERD25TJ104	100K	R435	ERD25TJ223	22K	R717, 718	ERD25TJ333	33K
R125, 126	ERD25FJ3R3	3.3	R274	ERD25FJ102	1K	R436	ERD25TJ473	47K	R719, 720	ERD25TJ823	82K
R127, 128	ERD25FJ121	120	R275	ERD25TJ104	100K	R437	ERD25TJ223	22K	R721, 722	ERD25FJ103	10K
R129, 130	ERO25CKF3901	3.9K	R276	ERD25FJ103	10K	R438	ERD25TJ473	47K	R725, 726	ERD25TJ824	820K
R131, 132	ERO25CKF4702	47K	R277, 278	ERD25FJ122	1.2K	R439	ERD25FJ103	10K	R727, 728	ERD25TJ183	18K
R133, 134	ERD25FJ561	560	R279	ERD25FJ561	560	R440, 441	ERD25TJ104	100K	R729, 730	ERD25FJ392	3.9K
R135, 136	ERD25TJ334	330K	R281	ERD25FJ472	4.7K	R501, 502	ERD25TJ683	68K	R731, 732	ERD25TJ824	820K
R137	ERD25FJ221	220	R301, 302	ERD25TJ824	820K	R503, 504	ERD25TJ333	33K	R733, 734	ERD25FJ103	10K
R143	ERD25FJ221	220	R303, 304	ERD25TJ824	820K	R505	ERD25TJ824	820K	R735, 736	ERD25TJ223	22K
R201, 202	ERD25FJ103	10K	R277, 278	ERD25FJ122	1.2K	R507, 508	ERD25TJ124	120K	R737, 738	ERD25TJ824	820K
R203, 204	ERD25FJ103	10K	R279	ERD25FJ561	560	R509, 510	ERD25FJ100	10	R739, 740	ERD25FJ272	2.7K
R205, 206	ERD25FJ103	10K	R281	ERD25FJ472	4.7K	R511, 512	ERD25TJ224	220K	R741, 742	ERD25FJ562	5.6K
R207, 208	ERD25FJ103	10K	R305, 306	ERD25TJ824	820K	R513, 514	ERD25FJ103	10K	R743, 744	ERD25FJ332	3.3K
R209	ERD25TJ824	820K	R307, 308	ERD25TJ824	820K	R515, 516	ERD25TJ154	150K	R745, 746	ERD25FJ472	4.7K
R210, 211	ERD25FJ103	10K	R309, 310	ERD25TJ824	820K	R519, 520	ERD25FJ102	1K	R751, 752	ERD25FJ221	220
R212, 213	ERD25FJ103	10K	R311, 312	ERD25TJ824	820K	R521, 522	ERD25TJ153	15K	R753	ERD25FJ103	10K
R214, 215	ERD25FJ103	10K	R313, 314	ERD25TJ824	820K	R523, 524	ERD25FJ470	47	R801, 802	ERD25FJ222	2.2K
R216, 217	ERD25FJ103	10K	R351	ERD25FJ221	220	R525, 526	ERD25FJ470	47	R807, 808	ERD25TJ153	15K
R218	ERD25FJ103	10K	R401, 402	ERD25FJ820	82	R527, 528	ERD25TJ473	47K	R809, 810	ERD25TJ824	820K
R219, 220	ERD25TJ334	330K	R403, 404	ERD25FJ820	82	R529, 530	ERD25FJ331	330	R811, 812	ERD25FJ472	4.7K
R221, 222	ERD25TJ334	330K	R405	ERD25FJ820	82	R531, 532	ERD25FJ332	3.3K	R813, 814	ERD25FJ472	4.7K
R223, 224	ERD25TJ334	330K	R406, 407	ERD25FJ102	1K	R533, 534	ERD25FJ332	3.3K	R815, 816	ERD25TJ223	22K
R225, 226	ERD25TJ334	330K	R408, 409	ERD25FJ102	1K	R535, 536	ERD25FJ101	100	R817	ERD25FJ103	10K
R227, 228	ERD25TJ334	330K	R410	ERD25FJ102	1K	R537, 538	ERD25FJ100	10	R818, 819	ERD25FJ471	470
R229	ERD25TJ334	330K	R411	ERD25FJ821	820	R539	ERD25FJ221	220	R820	ERD25FJ103	10K
R230	ERD25FJ103	10K	R412	ERD25FJ332	3.3K	R541, 542	ERD25FJ222	2.2K	R821, 822	ERD25FJ101	100
R231	ERD25TJ104	100K	R413	ERD25FJ330	33	R551, 552	ERD25FJ392	3.9K	R823, 824	ERD25FJ560	56
R232, 233	ERD25TJ683	68K	R414	ERD25FJ470	47	R553	ERD25FJ561	560	R825, 826	ERD25FJ103	10K
R234, 235	ERD25TJ683	68K	R415	ERD25FJ820	82	R555, 556	ERD25FJ472	4.7K	R901	ERD25FJ682	6.8K
R236, 237	ERD25TJ683	68K	R416	ERD25TJ104	100K	R603, 604	ERD25TJ104	100K	R904	ERD25FJ333	33K
R238, 239	ERD25TJ683	68K	R417	ERD25FJ330	33	R605, 606	ERD25FJ222	2.2K	R905	ERD25TJ564	560K
R240, 241	ERD25FJ103	10K	R418	ERD25FJ470	47	R607, 608	ERD25FJ222	2.2K	R906	ERD25FJ821	820
R242, 243	ERD25FJ103	10K	R419	ERD25FJ820	82	R609, 610	ERD25FJ222	2.2K	R907	ERD25TJ563	56K
R244, 245	ERD25FJ103	10K	R420	ERD25TJ104	100K	R611, 612	ERD25FJ271	270			
R246, 247	ERD25FJ103	10K	R421	ERD25FJ330	33	R613, 614	ERD25FJ563	56K			

CAPACITORS

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
C1, 2	ECKDKC103PF2	0.01	C208, 209	ECKD1H333ZF	0.033	C505, 506	ECKD1H681KB	680P	C723, 724	ECQM1H153KV	0.015
C105, 106	ECQM1H222JZ	0.0022	C210	ECEA1HU2R2	2.2	C507, 508	ECKD1H681KB	680P	C725, 726	ECQM1H153KV	0.015
C107, 108	ECCD1H680K	68P	C213	ECEA1CU222	2200	C509, 510	ECKD1H102KB	0.001	C727, 728	ECEA1CN330S	33
C109, 110	ECKD1H102KB	0.001	C214	ECKD1H333ZF	0.033	C511, 512	ECKD1H333ZF	0.033	C729, 730	ECEA1CU470	47
C111, 112	ECQM1H472JZ	0.0047	C215	ECEA1CU221	220	C513, 514	ECEA1HU010	1	C731, 732	ECCD1H470K	47P
C115, 116	ECEAOJU332	3300	C217	ECKD1H333ZF	0.033	C515, 516	ECKD1H221KB	220P	C801, 802	ECCD1H151K	150P
C119, 120	ECQP1183GZ	0.018	C301, 302	ECEA1EU470	47	C601, 602	ECCD1H181K	180P	C803, 804	ECEA1CN100S	10
C121, 122	ECQM1H152JV	0.0015	C401, 402	ECEAOJU470	47	C603, 604	ECCD1H270K	27P	C805, 806	ECQM1H222JZ	0.0022
C123, 124	ECQP1683JZ	0.068	C403, 404	ECEAOJU470	47	C701, 702	ECEA1CN470S	47	C809	ECKD1H333ZF	0.033
C125, 126	ECEA1EN3R3S	3.3	C405, 406	ECEAOJU470	47	C703, 704	ECEA1HU010	1	C810	ECEAOJU470	47
C127, 128	ECQM1H562JV3	0.0056	C407	ECEAOJU470	47	C705, 706	ECKD1H561KB	560P	C811	ECEA1EU47R	4.7
C129	ECEA1EU101	100	C408, 409	ECEAOJU471	470	C707, 708	ECQM1H472JZ	0.0047	C901, 902	ECEA1VU102	1000
C130	ECEA1EU4R7	4.7	C410	ECEAOJU471	470	C709, 710	ECQM1H222JZ	0.0022	C903, 904	ECEA1EU100	10
C132	ECEA1CU220	220	C411	ECEAOJU101	100	C711, 712	ECQM1H183KV	0.018	C906	ECEA1EU470	47
C133	ECEA1EU101	100	C412	ECKD1H333ZF	0.033	C713, 714	ECQM1H123KV	0.012	C907	ECEA1CU222	2200
C201	ECEA1CU330	33	C413, 414	ECEAOJU470	47	C715, 716	ECQM1H683KV	0.068	C908	ECEAOJU101	100
C202, 203	ECKD1H333ZF	0.033	C415	ECEA1EU47R	4.7	C717, 718	ECEA1HU010	1	C909	ECEA1HU3R3	3.3
C204, 205	ECKD1H333ZF	0.033	C501, 502	ECQM1H683KV	0.068	C719, 720	ECQM1H154KV	0.15	C910	ECEA1CU220	22
C206, 207	ECKD1H333ZF	0.033	C503, 504	ECQM1H333KV	0.033	C721, 722	ECQM1H154KV	0.15	C911	ECEA1HUR33	0.33

REPLACEMENT PARTS LIST

- Notes:**
- Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
 - Important safety notice: Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
 - Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
 - The "S" mark is service standard parts and may differ from production parts.
 - The parenthesized numbers in the column of description stand for the quantity per set.

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
INTEGRATED CIRCUITS			DIODES			VARIABLE RESISTORS		
IC101, 501, 601, 701, 801	SVINJM4560DX	Equalizer, Drive Buffer, Amp	D101, 102, 202~209, 219, 221, 251~268	MA162A	Switching	VR501, 502	EVNK6A00B52	DC offset adj, 500 Ω (B)
IC201, 202, 204, 205	SVIUPD4002BC	Input selector control	D201~218	MA1100-M	10V, Zener	VR503	EWGHCA054703	Balance
IC203	SVIUPD4072BC	Input selector Control	D220	SVDMZ303BM	3V, Zener	VR552	EWI6SA049101	Volume
IC301~305	MN6631A	Input selector (Voice signal)	D251~260, 351	SVDPR5533K	Input selector IND	VR701, 702	EWGHCO054C15	Treble, super treble 100K Ω (C)
IC401, 402	SVIUPD4066BC	Input selector (Video signal)	D401, 505, 506	MA27W-A	Switching	VR703	EWGHCV054530	Bass
IC403	DN74LS05	Inverter	D402~404	MA162A	Input selector	VR704	EWKK5A531B53	Supper Bass, 5K Ω (B)
IC702, 802	AN6552F	Buffer, DCservo	D405	MA1068-M	6.8V Zener	VR801, 802	EVNK6A00B23	DC offset adj, 2K Ω (B)
IC901	AN78M18	Regulator	D406	MA1056M	5.6V Zener			
IC902	AN79M18	Regulator	D551	SVDPR5735S	Muting IND	RELAY		
IC903	AN78M05	Regulator	D751~754	SVDPR5533K	Rec output	RLY901	SSY9	output
TRANSISTORS			D755	SVDAV5533K-M	DC IND	COMPONENT COMBINATIONS		
Q								

